EQUIPMENT

Gyroscopic

USSR

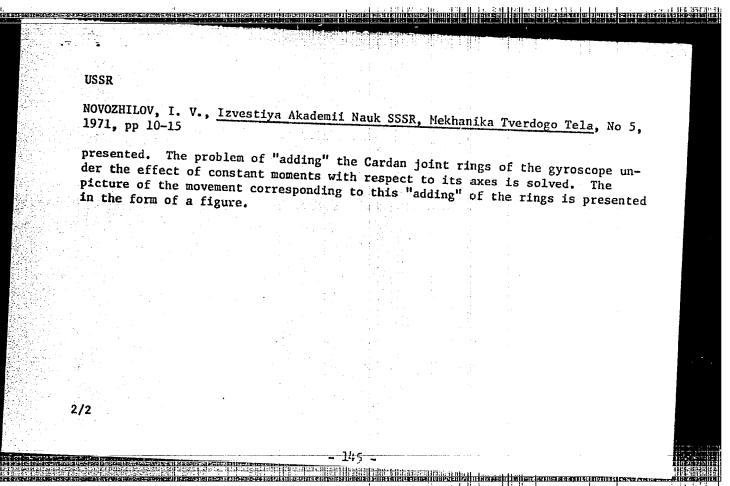
UDC 531.1

NOVOZHILOV, I. V., Moscow

"Transition to the Precession Equations of Gyroscopy in an Infinite Time Inter-

Moscow, Izvestiya Akademii Nauk SSSR, Mekhanika Tverdogo Tela, No 5, 1971, pp 10-15

Abstract: The results of I. S. Gradshteyn [Matematicheskiy Sbornik, Vol 32, No 3, 1953] to formulate the conditions on satisfaction of which the precession equations can be used in an infinite time interval. A gyroscopic system is investigated the confluent equations of which have a partial solution of the type of the position of equilibrium. This position of equilibrium is assumed asymptotically stable with respect to the first approximation on the strength of the confluent equations. In each step of the investigation (the step of entry of the solution into the small neighborhood of the position of equilibrium and the step of movement in this neighborhood in an infinite time interval) the existence of a value of a small parameter | which will solve the problem in its step is established. The least of these two values can be considered as the value of the small parameter solving the problem as a whole. An example of constructing the precession equations for a specific gyroscopic system is 1/2



USSR

VDC: 531.1

NOVOZHILOV, I. V., Moscow

"Systematic Drifts of Gyroscopic Devices as Related to the Power of an Elementary Divisor of the Zero Root of the Linear Part of Equations"

Moscow, Izvestiya AN SSSR: Mekhanika Tverdogo Tela, No 4, Jul/Aug 71, pp 38-42

Abstract: The author considers the equations of motion for small oscillations of a gyroscopic system close to its initial position. It is shown that the systematic departure of gyroscopic devices from the initial position may be an arbitrary power function of time which depends on the power of the elementary divisor of the zero root of the linear part of the equations of motion. Examples are given of systems with drifts which are linear and quadratic functions of time.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

USSR

NOVOZHILOV, I. V. (Moscow)

"The Use of Asymptotic Expansions of Differential Equation Theory With a Small Parameter in Connection with the Leading Derivative for the Investigation of Gyroscopic Systems"

Moscow, Mekhanika Tverdogo Tela, No 4, Jul-Aug 70, pp 50-57

Abstract: It is shown that a small parameter in connection with the leading derivative can be introduced into the equations of motion of gyroscopic systems. For this a substantial difference is required in the value of the time characteristics of the "precessional" and "mutation" components of motion. The solution is constructed by means of asymptotic expansions used in the theory of equations of this kind. Here the nutation and precessional components of motion, as well as that of the "Magnus drift," are obtained by formal construction of the corresponding terms of the asymptotic expansion. 8 bibliographic entries.

1/1

- 103 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

न्द्रमानमञ्जूष्ट्रमानमञ्जूषा । स्थापन साम्यास्य स्थापन साम्यापन स्थापन स्थ

1/2 027 UNCLASSIFIED PROCESSING DATE-300CT70
TITLE-DEPENDENCE OF THE RUNOUT TIME OF AN ELECTROSTATIC GYROSCOPE ON THE
ROTOR UNBALANCE -U-

LEBERT DICH GEREN MINDELLEGEN WERTEN AUCH HEI HER HILL DER HEITEN HEITEN HEITEN HER EINE GEREN STEINE HER EIN DER HEITEN HEITEN

AUTHOR-(03)-MARTYNENKO, YU.G., NOVOZHILOV, I.V., DANILIN, V.P.

CGUNTRY OF INFO-USSR

SOURCE--IZVESTIIA, MEKHANIKA TVERDOGO TELA, MAR. APR. 1970, P. 20-22

DATE PUBLISHED----70

SUBJECT AREAS-NAVIGATION

TOPIC TAGS-GYROSCOPE MOTION, ELECTROSTATICS, VIBRATION DAMPING, RUNOFF

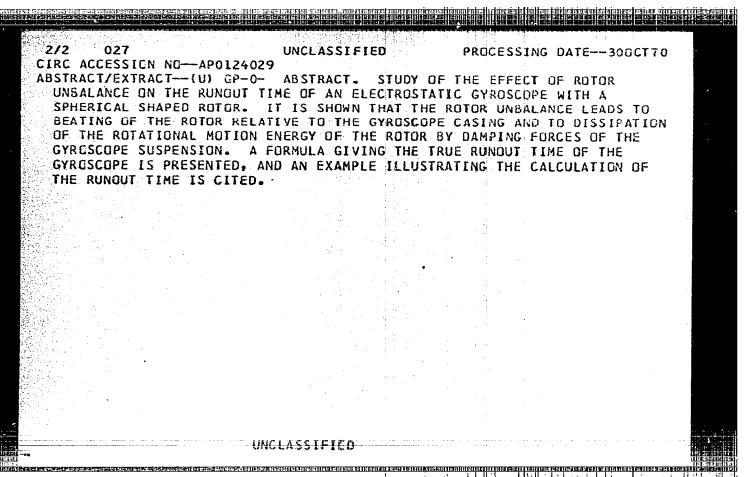
CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/0268

STEP NO--UR/0484/70/000/000/0020/0022

CIRC ACCESSION NO-APO124029

UNCLASSIFIED



USSR

UDC 632.951:595.786

NOVOZHTLOV, K. V. SMIRROVA, I. M., and GOLUHEV, T. I., All-Union Institute for the Protection of Plants

"Possible Use of Organophosphorus Preparations in the Protection of Wheat against Grain Cutworm and Wheat Thrips"

Moscow, Khimiya v Selskom Khozyaystve, Vol 9, No 3, 1971, pp 38-41

Abstract: Most effective in the protection of wheat against grain cutworm and wheat thrips were chlorophos, methylnitrophos, and metaphos. The effectiveness of these compounds against eggs of the above pests was established in the laboratory. Chlorophos and metaphos (at a concentration of lished in the laboratory. Chlorophos and metaphos (at a concentration of lished in the laboratory. Chlorophos and metaphos (at a concentration of lished in the laboratory. Chlorophos and metaphos residues on mature. Also determined, were chlorophos and methylnitrophos residues on mature. Wheat plants. Another test series was run to determine the effectiveness of these compounds at lower concentrations (0.5 and 15) against caterpillars of the grain cutworm. Methylnitrophos and chlorophos were found to be most active against older caterpillars. It was concluded that both methylnitrophos and chlorophos can be safely used for grain to protect wheat against caterpillars of the grain cutworm.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

USSR

UDC: 621.396.6.002.72:621.757(088.8)

NOVOZHILOV, L. N., ZHELUDEV, Yu. G.

"A Device for Feeding Radio Parts Onto a Conveyer One at a Time"

USSR Author's Certificate No 282467, filed 27 Jun 69, published 18 Dec 70 (from RZh-Radiotekhnika, No 6, Jun 71, Abstract No 6V328 P)

Translation: A device is proposed for feeding radio components onto a conveyer one at a time. The device contains an accumulator made in the form of a chute set at an angle, and an interceptor set in the lower section of this chute. To simplify the design of the device and improve its operational reliability, the interceptor is made in the form of two pairs of toothed racks with a gear between them engaged with a toothed push rod connected by a rod and thrust bearing to the conveyer belt.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

UDC 669.046.5

USSR

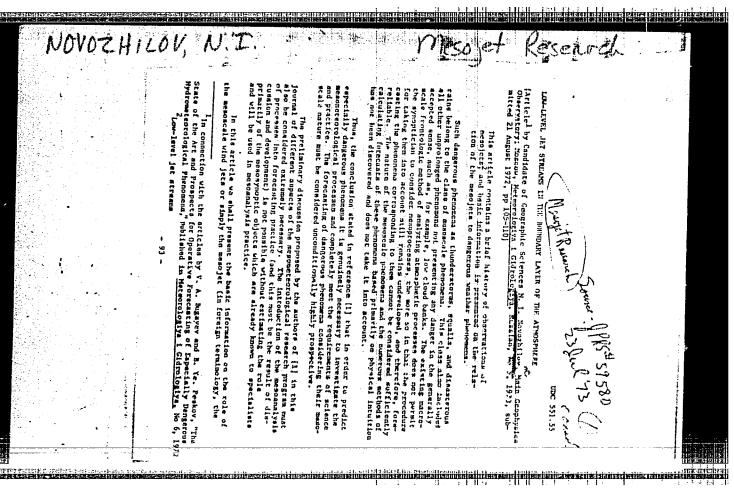
ROGULEY, B. A., SHMATKO, G. A., PRONICHKIN, A. A., GOLIKOV, Ye. S., NOVOZHILOV, N. G., BARMOTIN, I. P., SMIRNOV, YYu. D., and CHERNOV,

"Electrical Steel Degassing by Argon Blowing in 100-ton Ladles"

Moscow, V sb. "Sovremennye problemy kachestva stali" (MISiS) (Collection of Works. Modern Problems of Steel Quality) (Moscow Institute of Steel and Alloys), Izd-vo "Metallurgiya," No 61, 1970, pp 264-265

Translation of Abstract: Data are presented on the use of porous refractory inserts for argon blowing in 100-ton ladles. The results of an investigation on degassing of Shkhl5 steel produced with refining by liquid synthetic slag are presented (hydrogen content at blowing decreases by 23% and that of oxygen by 55-65%). Attention is paid to increasing the refining effect of synthetic slag at argon blowing, resulting in a higher (up to 95%) degree of desulfurisation; in a rise of metal-slag distribution coefficient (up to 16h) with a zation; in a rise of metal-slag distribution coefficient (up to 16h) with a zation; in slag consumption and production cost; and lowering of steel conreduction in slag consumption of the degassed metal are significantly higher than those of the nondegassed metal. I figure, 2 tables.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"



USSR

UDC: 534.84.001.24:621.635

YEGOROV, N. F. and NOVOZHILOV, S. YA.

"Calculating the Octave Noise Levels at the Intake of Centrifugal Ventilators"

Leningrad, Sudostroyeniye, No 5 (402), 1971, pp 32-33

Abstract: The authors present graphs for the dependence of the noise levels on the QH parameter where Q is the productivity of the ventilator and H is full pressure in kgs/m^2 . The graphs show that octave noise levels are uniquely related to the QH parameter. Noise level deviation from the mean does not exceed 15 1b for a QH variation within the $3 \cdot 10^4 - 10^7$ kgs·m/hr limits. A formula is derived for calculating octave noise levels. Original article: one table, one figure, one formula, and four bibliographic entries.

1/1

- 56 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

THE STREET OF THE PROPERTY OF

USSR

UDC 629.78:525.2+525.7

AZAROV, V. L., NOVOZHILOV, V. I., TAVRIZOV, G. A.

"The Possibility of a Unique Determination of the Electron Concentration on the Basis of Base Measurements"

V sb. Mat. metody modelir. v. kosmich. issled. (Mathematical Methods of Modeling in Space Research — Collection of Works), Moscow, "Nauka", 1971, pp 66-72 (from RZh-62. Issledovaniye kosmicheskogo prostranstva, No. 4, Apr 72, Abstract No. 4.62.258)

Translation: The problem of determining the local electron concentration N_e in the solar corona with the aid of phase measurements is investigated. The following simplifying assumptions are introduced: (1) the distribution N_e is assumed to be spherically symmetrical, i.e., $N_e = N_e(r)$; (2) the orbits of the emitter and receiver lie in the same plane; (3) the approximation of geometrical optics is carried out for any trajectories of the probing beams (the fraction is assumed to be negligibly small); (4) the regular ionosphere contribution to the magnitude of the phase shift is evaluated integrally. It is shown that in this case the problem of determining $N_e(r)$ is single-valued and reduces to an inverse problem in potential theory. 8 ref. L. D.

1/1

- 10 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

USSR

NOVOZHILOV, V. V.

N

"Connection Between Mathematical Expectation of Stress Tensors and Deformations in Statistically Isotropic, Uniform Elastic Bedies"

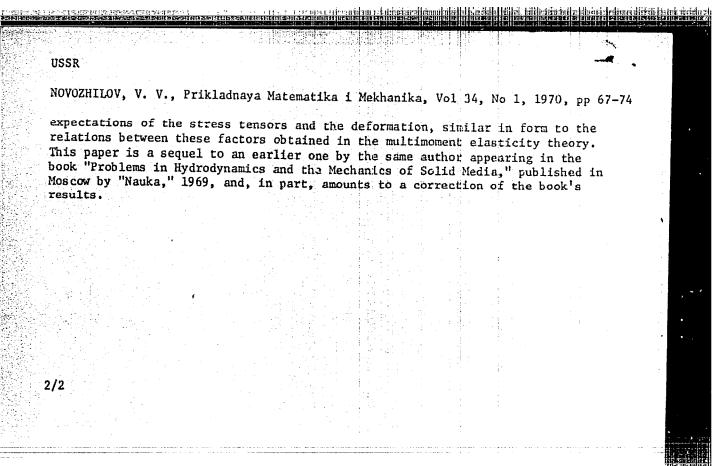
Moscow, Prikladnaya Matematika i Mekhanika, Vol 34, No 1, 1970, pp 67-74

Abstract: This paper deals with elastic solid bodies, following Hooke's Law, with the tensor of the elastic modulus considered to be a random stationary function of one coordinate with a given isotropic mathematical expectation. Among such bodies, with small deformations, are polycrystals with no predominant directions of anisotropy, and quasi-isotropic composite bodies. The most difficult aspect of the problem is the general case, in which the field of the stress tensors is not stationary; this paper considers this more general situation with no preliminary suppositions. The solution is set up in the form of a series satisfying the equilibrium equations of the body and the equations of continuity of the deformations. The coefficients of the series are essentially stationary tensors, independent of the form of the body and the external stresses on it. From this solution relations are obtained between the mathematical 1/2

76 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

in de la completa de la comp



APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

er de la contraction de la contraction de la la la la la contraction de la contraction de la contraction de la La contraction de la

1/2 059

UNCLASSIFIED

PROCESSING DATE--300CT70

TITLE--GGNNECTION BETWEEN MATHEMATICAL EXPECTATION OF STRESS TENSORS AND DEFURMATIONS IN STATISTICALLY ISUTROPIC, UNIFORM ELASTIC BUDIES -U-

AUTHOR--NOVOZHILOV, V.V.

CGUNTRY CF INFO--USSR

SCURCE-MUSCOW, PRIKLADNAYA MATEMATIKA I MEKHANIKA, VOL 34, NO 1, 1970, PP

DATE PUBLISHED----70

SUBJECT AREAS-MECH., IND., CIVIL AND MARINE ENGR, PHYSICS

TOPIC TAGS-ELASTICITY, HYDRUDYNAMICS, METAL STRESS, ANISOTROPY, COMPOSITE MATERIAL, METAL DEFORMATION, ELASTIC MODULUS, TENSOR

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1999/1192

STEP NO--UR/0040/70/034/001/0067/0074

CIRC ACCESSION NU--AP0123163

UNCLASSIFIED

2/2 UNCLASSIFIED PROCESSING DATE--300CT70 (059 CIRC ACCESSION NU--AP0123163 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THIS PAPER DEALS WITH ELASTIC SOLID BUDIES, FOLLOWING HOOKE'S LAW, WITH THE TENSOR OF THE ELASTIC MODULUS CONSIDERED TO BE A RANDOMISTATIONARY FUNCTION OF ONE COORDINATE WITH A GIVEN ISOTROPIC MATHEMATICAL EXPECTATION. AMONG SUCH BODIES, WITH SMALL DEFORMATIONS, ARE POLYCRYSTALS WITH NO PREDOMINANT DIRECTIONS OF ANISOTROPY, AND QUASI ISOTROPIC COMPOSITE BODIES. THE MOST DIFFICULT SASPECT OF THE PROBLEM IS THE GENERAL CASE. IN WHICH THE FIELD OF THE STRESS TENSORS IS NOT STATIONARY; THIS PAPER CONSIDERS THIS MORE GENERAL SITUATION WITH NO PRELIMINARY SUPPOSITIONS. THE SOLUTION IS SET UP IN THE FORM OF A SERIES SATISFYING THE EQUILIBRIUM EQUATIONS OF THE BODY AND THE EQUATIONS OF CONTINUITY OF THE DEFORMATIONS. THE COEFFICIENTS OF THE SERIES ARE ESSENTIALLY STATIONARY TENSORS, INDEPENDENT OF THE FORM OF THE BODY AND THE EXTERNAL STRESSES ON IT. FROM THIS SOLUTION RELATIONS ARE OBTAINED BETWEEN THE MATHEMATICAL EXPECTATIONS OF THE STRESS TENSURS AND THE DEFORMATION, SIMILAR IN FORM TO THE RELATIONS BETWEEN THESE FACTORS OBTAINED IN THE MULTIMOMENT ELASTICITY THEORY. THIS PAPER IS A SEQUEL TO AN EARLIER ONE BY THE SAME AUTHOR APPEARING IN THE BUCK "PRUBLEMS IN HYDRODYNAMICS AND THE MECHANICS OF SOLID MEDIA," PUBLISHED IN MOSCOW BY "NAUKA" 1969, AND, IN PART, AMOUNTS TO A CORRECTION OF THE BOOK'S RESULTS.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

IDC 591.557

USSR

NOVOZHILOVA, E. N., Institute of Biology, Komi Branch, Academy of Sciences USSR, Syktyvkar

"Relationships Between Ectoparasites of the Common Red-Backed Vole and Inhabitants of Its Nest in the Middle Taiga of the Komi ASSR"

Leningrad, Parazitologiya, Vol 5, Vyp. No 4, Jul/Aug 71, pp 377-381

Abstract: Data of a seasonal study of the ectoparasites of Clethrionomys glareolus and of their nest inhabitants are presented. In particular, the relationships between host, ectoparasites, and nest inhabitants were studied based on biotopic and trophic (feeding) links. On the basis of biotopic relationships, all collected arthropods were assigned to one of three biological groups: host (parasites found only on the host), host-nest (parasites logical groups: host or in the nest), and nest inhabitants (parasites enfound either on the host or in the nest), and nest inhabitants (parasites encountered only in the nest). Based on their type of feeding, all inhabitants were grouped as: parasites, predators, saprophages, or phytophages. The variations in the occurrence of parasites during spring, summer, fall, and variations in the occurrence of parasites during spring, summer, fall, and variations in the occurrence of infections was also examined. Lice were found on the hosts during all seasons of the year. The season infectivity of 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

USSR

NOVOZHILOVA, E. N., Parazitologiya, Vol 5, Vyp. No 4, Jul/Aug 71, pp 377-381

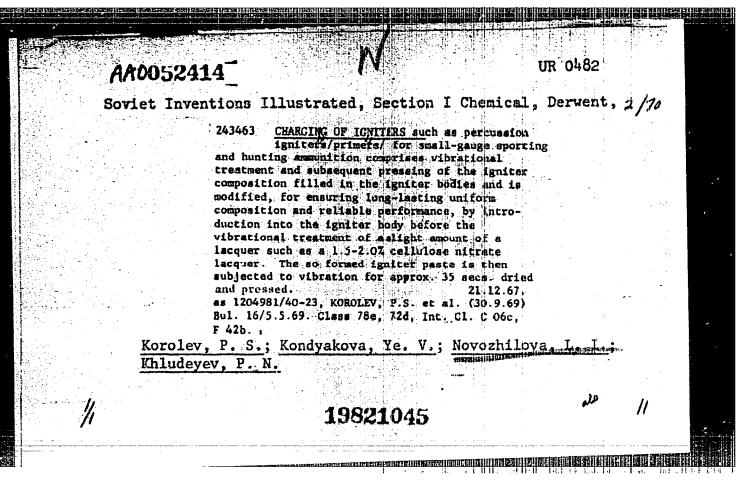
voles with lice was characterized by a summer peak. Besides lice, 161 species of Ixodes trianguliceps were collected on the voles. It was found that all stages of development of this species were active in the fall period when the maximum number of voles infected by larvae and nymphs was observed.

The host-next group was the most abundant group of parasites (with 21,529 collected specimen), most of them were ticks, the remainder fleas. Most species of this group were found on the hosts in winter and spring.

The nest group included moths and butterflies attracted by the plant materials of which the nests were made. These species (78 forms) were abundant all year around.

It was concluded from the quantitative data of this study that the distribution of Arthropoda on host and nest indicated that the common red-backed vole in the Komi ASSR does represent a danger in the epidemiological sense during winter as well as during summer.

2/2



UNCLASSIFIED PROCESSING DATE--300CF70
TITLE--DIRECT FLUOROALKENYLATION. VI. IMPROVEMENT IN A METHOD FOR
SYNTHESIZING FLUOROALKENYL AMINES -UAUTHOR-(03)-SERGEYEV, A.P., NOVOZHILOVA, T.I., YAKUBOVICH, A.YA.

COUNTRY OF INFO-USSR

SOURCE-ZH. ORG. KHIM. 1970, 6(4), 747-54

DATE PUBLISHED----70

1

SUBJECT AREAS-CHEMISTRY

TOPIC TAGS-FLUORINATED ORGANIC COMPOUND, AMINE, ORGANIC SYNTHESIS, ORGANICITHIUM COMPOUND, ZINC

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME——2000/1955

STEP NO--UR/0366/70/006/004/0747/0754

A SECTION OF A SECTION OF A LITTLE SECTION OF A SECTION O

CIRC ACCESSION NO--APO125544

UNCLASSIFIED

018 UNCLASSIFIED PRUCESSING DATE--300CT70 CIRC ACCESSION NO-APO125544 ABSTRACT/EXTRACT-(U) GP-O- ABSTRACT. THE SYNTHESIS CONDITIONS WERE WORKED OUT FOR THE PREPN. OF RNR PRIMET R PRIMEZ INHERE R ARE F SUB2 C:CF, C1FC:CF, F SUB2 C:CFCF SUB2, FHC:CF, F SUB2 HCCF SUB2, C1FHCCF SUB2, F SUB3 CCHFCF SUB2, FBRHCCF SUB2, F SUB2 HCCO, C1FHCCO, F SUB3 CCHFCF SUB2, OR BRFHCCO, AND NR PRIMEL R PRIMEZ ARE NEW SUB2, PIPERIDING, MORPHOLING, NME SUB2, NET SUB2, NACPH, NHPH, OR NMEPH). EXAMPLES: THE REACTION OF HABU SUB2 WITH BULL IN HEXANE GAVE LINBU SUB2 WHICH WITHOUT ISOLATION WAS CONDENSED WITH F SUB2 C:CF SUB2 IN AN AUTOCLAVE AT 90-150DEGREES TO GIVE F SUB2 C:CFNBU SUB2. THE DISPERSION OF LI IN TETRAHYDROFURAN WAS TREATED WITH PHNHAC TO GIVE PHNACLI, WHICH WITHOUT ISOLATION WAS TREATED WITH CF SUB2:CF SUB2 TO GIVE CF SUB2: CFNACPH. THE DEHYDROGENATION OF BREHCCEHNACPH WITH POWD. IN GAVE FHC:CFNACPH. THE HYDROLYSIS OF PHNACCF:CFX OR OF PHNACCF SUB2 CHFX (X IS H. F. UR CLI GAVE PHNHCOCHFX.

USSR

UDC 536.46

MAKHVILADZE, G. M., NOVOZHULOV, B. V., Moscow

"Two-Dimensional Stability of Combustion of Condensed Systems"

Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No 5, 1971, pp 51-59.

ABSTRACT: The problem of the stability of combustion of condensed systems is studied in the linear approximation with respect to curvature of the burning front. Two simple models of combustion are studied: gasless systems and a model of flameless combustion of a solid fuel. In the first gas, the combustion products, like the initial material, are condensed, while in the latter case the solid fuel is converted to a gas, in which no chemical reactions occur. Boundaries of stability of the stable combustion mode are found. It is demonstrated that gasless systems are less stable to two-dimensional perturbations than to one-dimensional perturbations. For the model of flameless combustion, the result depends on the relationship of heat physical constants of the initial material and the combustion products. The problem is studied of the influence of heat transfer on the one-dimensional stability of gasless compositions. Increasing heat liberation decreases the area of stability of combustion, one-dimensional instability developing earlier than disruption of combustion due to strong heat transfer to the walls.

1/2 012 UNCLASSIFIED PROCESSING DATE--160CT70
TITLE--DYNAMICS OF DRUG RESISTANCE AND REDUCTION OF SENSITIVITY IN
HYCOBACTERIA ISOLATED FROM TUBERCULOSIS CASES -UAUTHOR-(02)-BELOGUROVA, V.P., NOVROTSKIY, V.V.

COUNTRY OF INFO--USSR

SOURCE--ANTIBIOTIKI, 1970, VOL 15, NR 5, PP 434-437

DATE PUBLISHED---- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--DRUG RESISTANCE, MYCOBACTERIUM TUBERCULOSIS

CONTROL MARKING--NO RESTRICTIONS

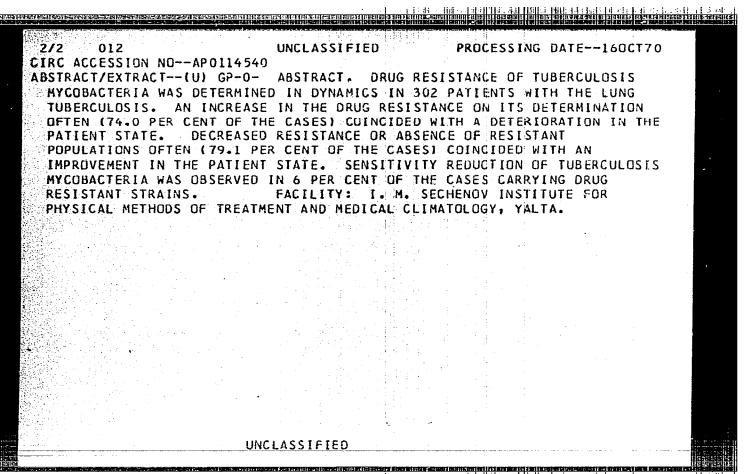
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1994/0144

STEP NO--UR/0297/70/015/005/0434/0437

CIRC ACCESSION NO--APOLI4540

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"



्रतानुकार क्षेत्रकार १ वर्ष इ.स.च्या १ वर्ष १ व

USSR UDC 632.95

NOVRUZOV, Kh., KUCHKAREV, A. B., ALOVITDINOV, A. B., and SARANKINA, S. A.

"Method of Preparing tert-Alkyl Phenols"

USSR Authors' Certificate No 259903, filed 17 Jul 68, published 7 May 70 (from RZh-Khimiya, No 1, 10 Jan 71, Abstract No 1N608P)

Translation: tert-Alkyl phenols which can be employed as herbicides and fungicides are obtained by the alkylation of PhOH with tertiary alcohols a in the presence of polyphosphoric acid (I) at \leq 200°. This increases the selectivity of the alkylation as compared with other acid catalysts. In a device with a DIN-STARK [transliterated from the Russian; possibly DEAN-STARK] cap, 0.6 mole tert-BuOH is added dropwise to 0.5 mole PhOH containing 1-3% I at 145-150° with stirring. After heating for 15 min, the mixture is cooled, rinsed off from I with water, and 4-tert-BuC6H4OH is separated by distillation, yield 98%, melting point 96-8.5° (heptane).

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

USSR

WDC 547.241+546.185*131

ા છે. છે. દ્રાણકાર કેટલેસા કરવા છે. કે માના બા ક્યાપક જરાશોમાં માં માના માના માના તાલા કારા કો શાહ જ્યાર કારા કરા હકા હકા

ISMAILOV, V. M., MOSKVA, V. V., NOVRUZOV, S. A., RAZUMOV, A. I., AKHMEDOV, SH. T., ZYKOVA, T. V., and SALAKHUTDINOV, R. A.

"Interaction of Phosphorus Pentachloride with Alkyl. Acetates"

Leningrad, Zhurnal Obshchey Khimii, Vol XLIII (CV), No 1, 1973, p 212

Abstract: Under mild conditions (neutral solvent, 15-20°), the interaction of phosphorus pentachloride with alkyl acetates takes place with the formation of phosphorylation products, the nature of which depends on the reagent ratio. With a quadruple excess of phosphorus pentachloride, depending on the alkyl radical in the initial esters (R = Me, Et), the basic product can be the trichloranhydride of cihlorophosphonacetic acid (I)

$$CH_3C \nearrow OR + 4PCI_5 \rightarrow [complex] \xrightarrow{SO_2} CI_2PCCI_2C \nearrow O$$

With smaller amounts of phosphorus pentachloride, more complex mixtures of products of phosphorylation are formed in which the proportion of the pro1/2

, 31 --

USSR

ISMAILOV, V. M., et al., Zhurnal Obshchey Khimii, Vol XLIII (GV), No 1, 1973, p 212

duct (I) decreases with a decrease in the phosphorus pentachloride taken. This indicates that product (I) is the final product of the presented interaction. The experimental procedure for obtaining the product and infrared and other data confirming its structure are presented.

2/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

USSR

ISMAILOV, V. M., ZYKOVA, T. V., MOSKVA, V. V., NOVRUZOV, S. A., RAZUMOV, A. I., AKHMEDOV, SH. T., and SALAKHUTDINOV, R. A., Kazan Chemical Technological Institute Imeni S. M. Kirov, and Azerbaydzhan State University Imeni

"Derivatives of Substituted Vinylphosphonic Acids. XVI. Schematic for the Phosphorylation of Alkylacetates With Phosphorus Pentachloride"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 6, Jun 73, pp 1247-1250

Abstract: Reactions of phosphorus pentachloride with ethylacetate have been investigated using different reagent ratios. It has been established that the reaction products consist of B-chloro- B ethoxyvinylphosphonic acid dichlorides and phosphonodichloroacetic acid trichlorides. The first step in this reaction is the replacement of the carbonyl oxygen atom with two chlorine atoms yielding α , α -dichloroethylalkyl ether, which upon dehydrochlorination yields CX -chlorovinylalkyl ether. The latter reacts with PCl5 yielding the final products. On the basis of NMR data, it has been shown that the B-chloro-B-ethoxyvinylphosphonic acid dichloride forms in two geometric isomers.

1/1

- 35 -

USSR

UDC 547.241 + 546.185.131

MOSKVA, V. V., ISMAILOV, V. M., <u>MOVRUZOV</u>, S. A., RAZUMOV, A. I., ZYKOVA, T. V., AKHMEDOV, Sh. T., and SALAKHUTDINOV, R. A., Kazan' Chemical Technological Institute imeni S. M. Kirov and Azerbaydzhan State University imeni S. M. Kirov

"Phosphorylation of α,α -Dichlorodiethyl Ether With Phosphorus Pentachloride"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 9, Sep 73, pp 2085-

Abstract: The reaction of α,α -dichlorodiethyl ether with PCl₅ leads to the formation of a complex which upon decomposition yields dichlorophosphoneacetic acid trichloride, and β -chloro- β -ethoxyvinylphosphonic acid dichloride in two geometric isomers.

1/1

- 33 -

USSR

UDC 547.341

ISMAILOV, V. M., NOVHUZCV, S. A., KRASILOV, A. M., and AKHMEDOV, SH. T. Azerbaydzhan State University Imeni S. M. Kirov

"Reaction of Phosphorus Pentachloride With Isoprene Hydrochlorides"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 5, May 73, p 1197

Abstract: Studying the effect of two electron donating and one electron accepting substituents at the olefinic bond on the phosphorylation the reaction of phosphorus pentachloride with primary and tertiary isoprene hydrochlorides was studied. It has been shown that in both cases the reaction leads to the products of chlorination and phosphorylation. In the process 1-chloromethyl-2-chloro-2-methylpropylphosphonic acid dichloride was synthesized which could undergo dehydrochlorination after prolonged heating to yield 1-chloromethyl-2-methyl-propenyl-1-phosphonic acid dichloride.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

USSR

UDC: 621,377.622.12

NOVYSH, P. A.

"A Thyristorized Ring Commutator"

USSR Author's Certificate No 254566, filed 5 Jun 68, published 29 Jan 70 (from RZh-Avtomatika, Telemekhanika i Vychislitel'naya Tekhnika, No 11, Nov 70, Abstract No 11A45 P)

Translation: This Author's Certificate introduces a thyristorized ring commutator with loads coupled by commutating capacitors. Each cell of the commutator contains an RC circuit connected by a resistor to the load of the preceding cell. Each cell is also connected by a capacitor to the input line, and by a centertap to the input of a thyristor through a semiconductor diode. The loads are connected in the cathode circuits of the thyristors, while the anodes of the input diodes are connected through resistors to a source of negative bias. As a result, pulses with steep positive leading edges are produced at the outputs of the commutator. A reversible register can be made by using additional analogous input circuits which select the next cell in reverse order. One illustration. T. R.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

USSR

NOWAKOWSKI, Ryszard

UDC: 577.4

"On the Product of Automaton Graphs"

Pr. nauk. Inst. matem. i fiz. teor. PWr., 1973, No 5, pp 3-14 (from RZh--Kibernetika, No 7, Jul 73, abstract No 7V417 by I. Grunskiy)

Translation: An automaton graph G over the sets S, X, Y is understood to mean the graph of an automaton in which S, X, Y are sets of states, input and output signals respectively. The arc of a graph is the quadruplet (s₁, s₂, x, y), where s₁ is the state of the graph, s₂ is the receiver of state s1 with respect to input signal x, and y is the corresponding output signal. The sets S, X, Y are sets of sequences (in some alphabet L) of identical length for each set. Let ϕ_i be the operation of deleting the i-th letter in a sequence; the ij-product of arc (s1, s2, x, y) and s[, s2, x, y) is equal to (s1s1, s2s2, x4s1(x1), y4, (y1)) if the i-th letter of sequence x' is equal to the j-th letter of sequence y'. Otherwise the ij-product is equal to the empty sequence. The ij-product of graphs G_1 and G_2 is defined as the paired ij-product of the arcs of graph G_1 and the arcs of graph G_2 . And so it is shown for example that

USSR

NOWAKOWSKI, R., Pr. nauk. Inst. matem. i fiz. teor. PWr., 1973, No 5,

the ij-product of automaton graphs is an automaton graph. The principal result: the necessary and sufficient condition is found which must be satisfied so that the ij-product of the strongly connected graph G₂ will be a strongly connected graph.

2/2

- 25

051

1/2

PROCESSING DATE-- 20NOV70

TITLE--EFFECT OF TEMPERATURE AND A VARIABLE MAGNETIC FIELD ON THE MAGNETIC AUTHOR-(52)-BRYUKHATOV, N.L., NOYEVA, M.R.

CCUNTRY OF INFO-USSR

SOURCE-FIZ. METAL METALLOVED. 1970, 2913), 645-6

DATE PUBLISHED ---- 70

SUBJECT AREAS -- PHYSICS, MATERIALS

TOPIC TAGS-TEMPERATURE EFFECT, MAGNETIC FIELD EFFECT, MAGNETIC STRUCTURE, MAGNETIC DEMAIN STRUCTURE, FERROMAGNETIC FILM, NICKEL ALLOY, IRON, LASER LUMINESCENCE, MAGNETIC HYSTERSIS, TRANSVERSE MAGNETIC FIELD

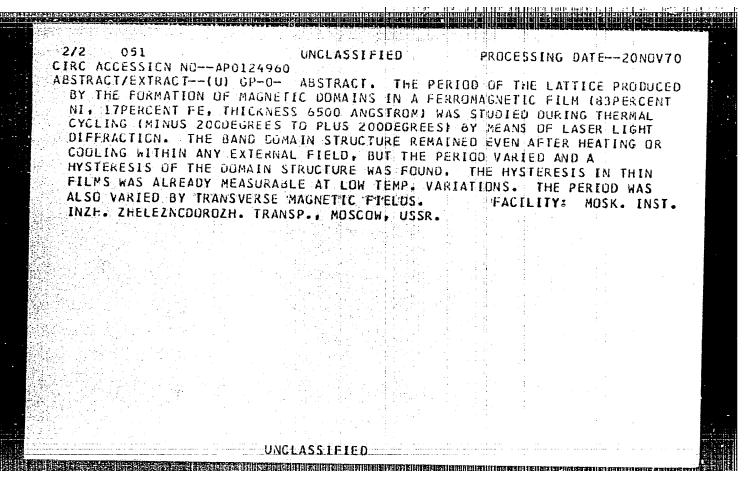
CENTROL MARKING-NO RESTRICTIONS

DUCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME-2000/1309

STEP NO--UR/0126/70/029/003/0645/0646

CIRC ACCESSION NO--APO124960

UNCLASSIFIED



USSR

N

UDC 621.385.633

NOYKIN, Yu. M.

"Investigation Cf BWT-Phase Shifter (Summary Of Deposited Manuscript)"

Elekron. tekhnika. Nauchno-tekhn. sb. Elektron. SVCh (Electronics Technology. Scientific-Technical Collection. Microwave Electronics), 1970, No 2, pp 82-83 (from RZh-Elektronika i yeye primeneniye, No 8, August 1970, Abstract No 8A150)

Translation: The results are presented of experimental investigations of models of a BiT-phase shifter for the centimeter band. It is shown that in models in which a parameter of the first stage was computed from the excitation condition of one slow wave of the space charge, the fewest pulsations of the output power were observed. The phase deviation of the microwave signal amounted to several tens of turns with an amplification up to 16 db. Out off of the output was investigated with low values of the drift tube voltage. The experimental data confirm the theoretical conclusions as to the possibility of realization of an excitation regime of a slow wave of space charge at any frequency of the working range. 3 ill. G.B.

1/1

- 282 -

USSR

UDC 621.385.632

NOYKINA, T.K., ROVENSKIY, G.V.

*Experimental Investigation Of TWT With Electrostatic Focusing Of The Field Of A Rotating Electron Stream

Elektron. tekhnika. Nauchno-tekhn. sb. Elektron. SVCh (Electronic Technology. Scientific-Technical Collection. Microwave Electronics), 1970, Issue 12, pp 138-140 (from RZh-Elektronika i yeye primeneniye, No 4, April 1971, Abstract No 4A173)

Translation: An experimental investigation is conducted of the passage of current in a traveling-wave tube with electrostatic focusing of the field of a rotating electron stream. The results of the investigation show good qualitative and quantitative agreement with the results of theoretical trajectory analysis conducted previously. 2 ref. Summary.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

ierenen diespesken die gegenen der bei der den der der den der den der den den der den der der der der der der

UDO 621.3.032.266

er-call shartst fel s

USSR

NOYKINA T.K.

"Shaping Of Hollow Cylindrical Rotating Electron Stream By The Periodic Electrostatic Field Of A Double Helix

Elektron. tekhnika. Nauchno-tekhn. sb. Elektron. Sych (Electronic Technology. Scientific-Technical Collection. Microwave Electronics), 1970, Issue 11, pp 142-145 (from RZh-Elektronika i yeye primeneniye, No 2, February 1971, Abstract No 2A149)

Translation: The shaping is considered of a hollow rotating stream by the periodic electrostatic field of a double helix. It is shown that with optimum values of the parameters and conditions of introduction into the system, the shaping system in question makes it possible to obtain a well-formed stream with pulsations of 2-17%. 6 ref. Summary.

1/1

USSR

UDU 537.533.7:621.385.6

NOYKINA. T.K.

"Shaping Of Solid Cylindrical Electron Stream By The Periodic Electrostatic Fields Of A Double Helix (Summary Of Deposited Manuscript)"

Elektron. tekhnika. Nauchno-tekhn. sb. Elektron. SVCh (Electronic Technology. Scientific-Technical Collection. Microwave Electronics), 1970, Issue No 10, pp 109-110 (from RZh--Elektronika i yeye primeneniye, No 2, February 1971, Abstract No 2A155)

Translation: The problem is theoretically considered of shaping a solid cylindrical electron stream by the periodic electrostatic fields of a double helix in a nonparaxial approximation. The equations of motion of the boundary electrons obtained in parametric form are solved numerically on a computer. The effect on the trajectory of the electrons in the shaping system of the focusing parameter, the space charge parameter, the entrance angle and the comparative radius of the entrance is investigated. 2 ill. 1 ref. G.B.

1/1

USSR

UDG 537.533.7:621.385.6

NOYKINA. T.K.

*Shaping Of A Hollow Cylindrical Electron Stream By The Electrostatic Field Of The System Double Helix--Coaxial Stub (Summary Of Deposited Manuscript)

Elektron. tekhnika. Nauchno-tekhn. sb. Elektron. SVCh (Electronic Technology. Scientific-Technical Collection. Microwave Electronics), 1970, Issue No 10, pp 111-112 (from RZh--Elektronika i yeye primeneniye, No 2, February 1971, Abstract No 2A152)

Translation: The problem is considered of shaping a hollow cylindrical electron stream by the electrostatic fields of a system of double helix-stub in a non-paraxial approximation. Equations are obtained in parametric form for the motion of the boundary electrons. The effect on the quality of focusing of the parameters of focusing, the space charge, and the initial conditions of the introduction of a beam into the system, is investigated. 2 ill. 1 ref. G.B.

1/1

USSR

UDC: 612.273-08:612.453.014.46:615.357.453

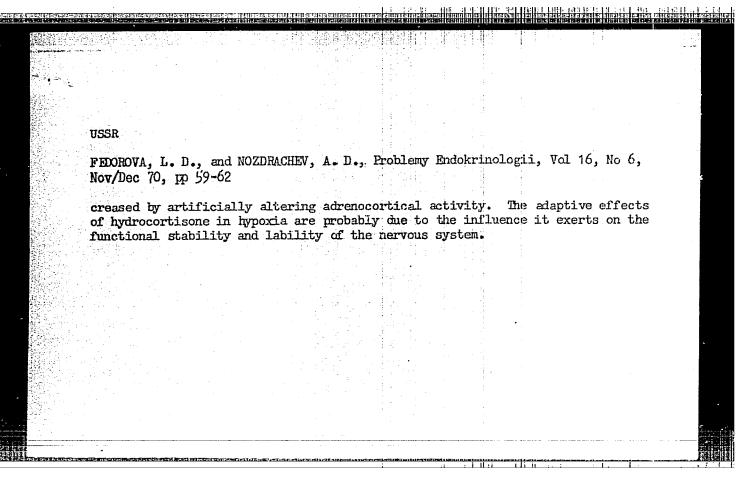
FEDOROVA, L. D., and NOZDRACHEV, A. D., Laboratory of Experimental Endocrinology, Institute of Physiology imeni I. P. Pavlov, Academy of Sciences USSR, Leningrad

"The Effect of Hydrocortisone on the Excitability of the Cortical and Subcortical Structures Under the Influence of Hypoxia"

Moscow, Problemy Endokrinologii, Vol 16, No 6, Nov/Dec 70, pp 59-62

Abstract: Moderate and severe hypoxia was found to induce various changes in the primary responses of the acoustic cortex and posterior corpus quadrigeminum in rats. For example, hypoxia markedly increased the latent period while reducing the amplitude of both the positive and negative phases of the responses. Injection of hydrocortisone (0.2 to 5 mg) into hypoxic rats altered the nature of the primary responses in the cortical and subcortical structures, regardless of the degree of hypoxia. A 5-mg dose of the hormone was most effective in normalizing the rate of conduction of excitation and the functional state of the cortical neurons; 0.2 and 1 mg doses produced the same effect on the neurons of the posterior corpus quadrigeminum. Thus, the course of oxygen insufficiency evidently depends on adrenocortical function. Resistance to hypoxia can be markedly in-

1/2



1/2 016 UNCLASSIFIED TITLE--DISTRIBUTION OF SYMPATHETIC ACTIVITY DURING UNCONDITIONED PROCESSING DATE--13NOV70 INTERORECEPTOR REFLEXES -U-AUTHOR-WOZORACHEV, A.D. COUNTRY OF INFO--USSR SOURCE-FIZIOLOGICHESKIY ZHURNAL SSSR IMENI I. M. SECHNOVA, 1970, VOL 56 DATE PUBLISHED----70 SUBJECT AREAS--BIGLOGICAL AND MEDICAL SCIENCES TOPIC TAGS--SYMPATHETIC NERVOUS SYSTEM, ELECTROPHYSIOLOGY, REFLEX, CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/1175 STEP NO--UR/0239/70/056/005/0711/0717 CIRC ACCESSION NO--APO126777 UNCLASSIFIED.

enerni sekelendise, in Zucardokellari sekratural lareks bardanal landal				en samuentas inecessor
GIRC ACCESSION NOAPOL26777	UNCLASSIFIED	PROCES	SING DATE13	NDV70
ABSTRACT/EXTRACT(U) GP+0-	ABSTRACT. FL	ECTRIC ACTIVIT	Y CHANGES IN	
DIFFERENT PATHWAYS OF THE				
SYSTEM WAS STUDIED COMPARA				TION
MPLANTATION OF ELECTRODES WERE IMITATED WITH ITS DIS				
THE BLADDER WERE REVEALED.				
AND COUPLED REFLEXES IN DIE			LITY: PAVLOV	15
INSTITUTE OF PHYSIOLOGY, AC	.AD. SGI. USSR	, LENINGRAU.	•	•,
				·
				. 4.
				7
Little Committee of the	LASSIFIED			
The state of the s	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	G-15261- TH

UDC 613.2:664.8.037.53/.59

LESHCHENKO, P. D., Candidate of Medical Sciences, and NOZDRACHEV, S. I., Senior Scientific Associate Kiev Scientific Research Institute of Mutritional Hygiene, Kiev

"Changes in the Quality of Food Products Upon Prolonged Storage in a Frozen State"

Kiev, Vrachebnoye Delo, No 6, Jun 71, pp 137-138

Abstract: One can estimate the freshness of meat and meat and fishproducts on the basis of the amino acid content. Fresh meat contains the following free amino acids: cystine, lysine, histidine, arginine, aspartic acid, serine, glycine, glutamic acid, alanine, proline, tyrosine, valine, phenylalanine, and leucine. In meat that is not fresh after having been kept at 18-20°C, the content of all free amino acids is increased and threoning and methionine appear (A. D. Avshalumova, 1962). The content of free amino acids in a paste from krill (marine invertebrates) after storage for 1 yr. at minus 20° C has been compared with that in the freshly prepared product. The krill paste "Okean" prepared by the All Union Scientific Research Institute of Fishing and Oceanography (VNIRO) - cf. L. L. Lagunov et al. 1967 - that was in the form of frozen briquettes with a weight of 3-3.5 kg and had a temperature of minus 1/4

USSR

LESHCHENKO, P. D., and NOZDRACHEV, S. I., Vrachebnoye Delo, No 6, Jun 71, pp 137-138

20°C, was kept for 1 year in the frozen state at the Kiev Cold Storage Combine. The quantitative and qualitative free amino acid composition of the paste was determined before and after cold storage. The defrosted fresh paste was a dense mass with the consistency of cottage chaese, a color similar to that of carrots, and a pleasant odor and taste that resembled those of canned crab meat. The paste contained all amino acids. On hydrolysis of the protein isolated from the paste, the presence of the following amino acids (in % by wt. of the pure protein) was established: cystine + cysteine 3.2, lysine 5.8 histidine 4.5, arginine 5.4, serine 9.0, glycine 7.8, glutamic acid 12.5, threonine 6.0, alanine 7.1, tyrosine 8.0, tryptophan 3.3, methionine 2.4, valine, 7.4, phenylalanine 3.8, leucine + isoleucine 11.2. Proline was present. Experimental rats receiving for three months a ration that contained the krill paste instead of casein showed an increase in body weight that was 30% higher than that of control rats. The content of free amino acids in the blood and liver tissue and the concentration and activity of some redox enzymes were determined in experimental rats. The level of free amino acids and enzymatic activity in the blood serum and liver were higher for rats on the synthetic feed ration (in which casein had been replaced with an amount 2/4

- 10 -

LESHCHENKO, P. D., and NOZDRACHEV, S. I., Vrachebnoye Delc, No 6, Jun 71, pp 137-138

of krill paste of the same caloric value) than for rats fed the synthetic ration with casein (Ye. F. Shamray, S. N. /sici - S. N/Nozdrachev, and M. N. Polonskaya, 1969). The results of these experiments and data obtained earlier on protein metabolism and the activity of redox enzymes indicated that the paste proposed by VNIRO is a valuable food product. After storage of the paste for 1 year in the frozen state, its quality deteriorated in a pronounced manner from the organoleptic standpoint: the color changed from a bright carrot-red to a dull brown resembling that of rust; the cdor was no longer agreeable and similar to that of canned crab meat, but resembled that of cod liver oil which had been kept too long; the moisture content decreased; and the taste became generally worse. The content of free amino acids in the paste decreased sharply as compared with that of the fresh products: that of cystine + cysteine, lysine, glutamic acid, threonine, tyrosine, and leucine + isoleucine by a factor of 1.2-1.5; that of histidien, arginine, aspartic acid, and serine by a factor of 1.7-2; and that of methionine, tryptophan, and phenylalanine by a factor of 2.5, 3.7, and 3.8, respectively. The content of valine remained unchanged, while that of alanine and glycine had a tendency to increase. Data on the decrease in content of free amino acids were 3/4

USSR

LESHCHENKO,P. D., and NOZDRACHEV, S. I., Vrachebnoye Delo, No 6, Jun 71, pp 137-138

statistically reliable (P < 0.001). Storage of the krill paste at minus statistically reliable form of frozen briquettes led to a deterioration of its 20°C for a year in the form of frozen believes in the content of free amino quality accompanied by a considerable decrease in the content of free amino acids.

Food Tachnology

WC 614_31:639.28]-074L[543.86:547.965]

IESHCHENKO, P. D. and NOZDRACHEV, S. I., Kiev Scientific Research Institute of Entritional Hygiene

*Change in the Content of Free Amino Acids in Krill Paste After Long Storage"

Moscow, Voprosy Pitaniya, No I, 1971, pp. 64-65

Abstract: Paste made from krill (a plankton crustacean) contains all the amino acids and is known to have a beneficial effect on the growth and development of experimental rats. Analysis of krill paste by paper chromatography after one year of refrigeration at - 20°C revealed a marked deterioration in taste, odor, etc. and a sharp decrease in the content of free amino acids. The amount of cystine, lysine, glutamic acid, threonine, tyrosine, and leucine with isoleucine decreased after 12 months' storage by a factor of 1.2- to 1.5that of histidine, arginine, aspartic acid, and serine by a factor of 1.7- to 2. that of methionine by a factor of 2.5- and that of tryptophan and phenylalanine by factors of 3.7- and 3.8-, respectively. Valine remained unchanged. Only alanine and glycine tended to increase. The decrease in the level of the free amino acids was statistically significant.

1/1

CIA-RDP86-00513R002202230005-5" **APPROVED FOR RELEASE: 09/17/2001**

AND THE CONTROL OF THE STREET OF THE STREET

USSR

UDC: △ 539.1.073/.074

VLADIMIRSKIY, V. V., KOROL'KOV, I. Ya., NOVIKOVA, N. V., and NOZDRACHEV, V. N.

"A Method of Filmless Information Recording From Wire Spark Chambers in a Strong Magnetic Field"

Moscow, Pribory i Tekhnika Eksperimenta, No 5, 1973, pp 55-56

Abstract: The basic idea of this method is the recording of ultrasonic oscillations arising from the interaction of a current induced in a sonic conductor with an external magnetic field. The present article explores the use of the electrodynamic method, with an intense magnetic field, in the filmless information recording system, based on this idea, involving wire spark chambers with ferrite and magnetostriction information recording. The exploration was first conducted with models and then on a mock-up of the wire spark chamber measuring 1200X650 mm², filled with a Nethe mixture, in a magnetic field with an induction of 18 kilogauss. This method was found to have a high sensitivity and is capable of use with magnetic fields stronger than 1 kilocersted, a field intensity at which other methods are ineffective.

1/1

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5 AND ADDRESS OF A STATE OF THE ADDRESS OF THE ADDRES

PROCESSING DATE--- 20NOV70 TITLE--DETERMINATION OF THE COMPOSITION OF AN ISOPROPANOL CYCLOHEXANE UNCLASSIFIED AZECTROPIC SYSTEM IN A WICE TEMPERATURE RANGE NEAR THE CRETICAL AUTHOR-(03)-NCZDREV, V.F., GRECHKIN, V.I., NOVIKOV, G.I.

CCUNTRY OF INFO--USSR

SOURCE-ZH. FIZ. KHIM. 1970, 44(3), 819-20

DATE PUBLISHED----70

SUBJECT AREAS-CHEMISTRY

TUPIC TAGS--PROPANOL, CYCLUHEXANE, AZEGTROPE, PHASE EQUILIBRIUM, VAPOR PRESSURE, FLUID VISCOSITY

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/+RAME--3002/1198

STEP NO+-UR/0076/70/044/003/0819/0820

CIRC ACCESSION NO--APO128616

UNCLASSIFIED

PROCESSING DATE--20NOV70 UNCLASSIFIED 015 CIRC ACCESSION NO-APO128616 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE AZECTROPISM OF ISO, PROH, CYCLOHEXANE MIXTS. WAS INVESTIGATED AT VARIOUS COMPONENT RATIOS, VAFOR PRESSURES, AND TEMPS, UP TO THE CRIT. TEMP. THE PHASE EQUIL. WERE DETD. KEFRACTCMETRICALLY, THE ULTRASEUND PROPAGATION RATE O BY THE OFFICAL DIFFRACTIONAL METHOD, THE VISCUSITY ETA IN CAPILLARY VISCOMETER, AND THE D. IN SEALED AMPULS. AZEOTROPIC MIXTS. ARE FORMED IN THE SYSTEMS, THE AZEOTROPE COMPN. CHANGING WITH TEMP. THE ISO, PROH CONTENT IN THE AZEOTROPE INCREASES WITH TEMP. RISE TO A MAX. VALUE 80 WT. PERCENT NEAR THE CRIT. TEMP.; ETA OR AND O ARE MIN. AT CONCN. RATIOS FOR WHICH THE INTERACTIONS BETWEEN THE COMPONENTS ARE WEAKEST. FACILITY: TUL. GCS. PEDAGOG. INST. IM. TOLSTOGO, TULA, USSR. UNCLASSIFIED क्र प्रभाव स्वकृत्य प्रभाव मिहिस्साता सीतामा स्वयं स्वयं स्वरं स्वयं सीतामा सीतामा सीतामा स्वयं सीतामा सीतामा सीतामा सीतामा सीतामा सीतामा सीतामा सीतामा सी

1/2 016 UNCLASSIFIED PROCESSING DATE--300CT70

TITLE-ACOUSTIC PROPERTIES OF AZEOTROPIC MIXTURES -U-

AUTHOR-103)-GRECHKIN, V.I., NOVIKOV, G.I., NOZDREV, V.F.

CCUNTRY OF INFO-USSR

SOURCE-AKUST. ZH. 1970, 16(1), 145-7

DATE PUBLISHED ---- 70

SUBJECT AREAS-CHEMISTRY, PHYSICS

TOPIC TAGS-ACOUSTIC PROPERTY, AZEOTROPIC MIXTURE, POPANDL, CYCLOHEXANOL, ULTRASONIC VELOCITY

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--2000/2040

STEP NO-UR/0046/70/016/001/0145/0147

CIRC ACCESSION NO--APO125628

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

USSR

UDC: 581.325.65

KARMAZINSKIY, A. N., NOZDRIN, G. V., SHAGURIN, V. I., Moscow Engineering Physics Institute

"A Dynamic Element Based on MDS Transistors"

Moscow, Otkrytiya, izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, No 6, Feb 71, Author's Certificate No 294253, Division H, filed 12 Feb 70, published 26 Jan 71, p 176

Translation: This Author's Certificate introduces a dynamic element based on MDS transistors. The element contains a storage capacitor and circuits for charging and discharging it, and also an auxiliary transistor. As a distinguishing feature of the patent, speed is increased and the area of the semiconductor plate which is used is reduced by basing the discharge circuit of the storage capacitor on one transistor with the sink of the auxiliary transistor connected to its gate.

·@ 10·

UNCLASSIFIED

PROCESSING DATE---300CT7G

CIRC ACCESSION NO—APO125628

ABSTRACT/EXTRACT—(U) GP-O— ABSTRACT. ACCORDING TO SVENTOSLAVSKI, THE ABSTRACT/EXTRACT—(U) GP-O— ABSTRACT. ACCORDING TO SVENTOSLAVSKI, THE AZEOTROPIC PHENOMENON IS DUE TO THE DIMINISHED INTERACTION BETWEEN THE AZEOTROPIC PHENOMENON IS DUE TO THAT BETWEEN THE MOLS. OF THE SAME KIND. HETEROGENEOUS MOLS. CCMPARED TO THAT BETWEEN THE MOLS. WILL INFLUENCE IN IT COULD BE SUPPOSED THAT THE HETEROGENEITY OF MOLS. WILL INFLUENCE IN AN ANALUGOUS WAY THE PHYS. PROPERTIES. THE VELOCITY OF THE PROPAGATION AN ANALUGOUS WAY THE PHYS. PROPERTIES. THE LIQ. PHASE OF THE OF THE ULTRASOUND AND THE SHIFT VISCOSITY IN THE LIQ. PHASE OF THE ISO. APPROVED SYSTEM WERE MEASURED WITH THE AIM TO CHECK THIS SUPPOSITION; THE MIN. VALUE 99/17/HQQ1 PHYCIAPROPEGIGOSISMOS 202230005-5" VARIATIONS OF THE COMPN. OF THE AZEOTROPE MIXTS. THE PROFOUND VARIATIONS OF THE COMPN. OF THE AZEOTROPE MIXTS. THE PROFOUND CORRELATION BETWEEN THE PHYS. PROPERTIES AND AZEOTROPISM WAS THUS CORRELATION BETWEEN THE PHYS. PROPERTIES AND AZEOTROPISM WAS THUS PROVED. FACILITY: TUL. GOS. PEDAGOG. INST. IM. TOLSTOGO, TULA, PROVED.

USSR

UDC: 621.391.837.32:681.84.083.84

NOZDRIN, V. V., PAN'SHIN, I. A., PODPALYY, Ye. A., STEPANOV, B. M., FABRI-KOV, V. A., All-Union Scientific Research Institute of Opticophysical Measurements

"A Method of Increasing Contrast in Recording Optical Images on Strip-Domain Magnetic Tape"

Moscow, Zhurnal Nauchnoy i Prikladnoy Fotografii i Kinematografii, Vol 18, No 3, May/Jun 73, pp 217-218

Abstract: A method is described for increasing image contrast in thermal video recording on strip-domain magnetic tape. Before recording, the magnetic structure of the tape is oriented by an alternating magnetic field with amplitude exceeding the saturation field applied in the plane of the tape. The recording (domain-rotation) field is then applied perpendicular to the orientation of the initial domains. The film is heated by 0.03 µs neodymium laser pulses. As a result, the domain structure is rotated through an angle proportional to the density of the irradiation energy. Contrast at low intensity is increased by an order of magnitude over conventional recording methods.

1/1

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

santsuru etti puoti puoti puoti muuti marenui marenui marenui marenui mareni mareni mareni mareni mareni maren

UDC 621.315.592:546.19'681

KOVTONYUK, N. F., KURBATOV, L. N., NOZDRIN, V. V., ORLOV, V. S., RYABENKO, Ye. A., RASKIN, A. A., ROSTUNOVA, R. P., SOLOVIYEV, A. A., SEVAST'YANOV, V. G., UMNYAGIN, A. M., SHALUMOV, B. Z., and SHAULOV, Yu. Kh.

"Some Problems of a Technological Formulation of the Process of Obtaining Epitaxial Films of Gallium Arsenide by the Gas Phase Method"

V sb. Protsessy rosta kristallov i plenok poluprovodn. (Procedures for the Growth of Semiconductor Crystals and Films -- Collection of Works), Novosibirsk, 1970, pp 341-350 (from RZh-Elektronika i yeye primeneniye, No 7, July 1971, Abstract No 7B130)

Translation: The epitaxial films of GaAs obtained were produced by the gas phase method with the use of AsHz, Ga, and HCL. GaAs wafers served as substrates. The surface of a wafer was subjected to chemical-mechanical processing and etching with H2504: H202: H20 in the ratio 3: 1: 1. Synthesis of the GaAs was conducted in a reaction apparatus which was thoroughly scavenged by H2 and stched by HCl at 9500 C for 30 minutes. After cooling, the Ga was loaded into the chamber was heated to a temperature of 850° C for activation of the Ga surface. After reduction of the temperature to 100--150° C, the Gals substrate was introduced into the reaction zone. After heating the Ga area and the GaAs area, etching of the GaS was performed by HCl gas in a stream of AsH3 and H2. The films were doped by Se. 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

USSR

KOVTONYUK, N. F., et al., Protsessy rosta kristallov i plenok poluprovodn. (Procedures for the Growth of Semiconductor Crystals and Films -- Collection of Works), Novosibirsk, 1970, pp 341-350 (from RZh-Elektronika i yeye primeneniye, No 7, July 1971, Abstract No 7B130)

The best specimens of film had n-type conductivity and a mobility of 4000-5000 cm2/v.sec. Films doped by Se had a concentration of 5 . 1017 5 . 1018 at/cm3 and a mobility of 2000 cm²/v.sec. 8 ref. V.B.

2/2

- 56 -

CIA-RDP86-00513R002202230005-5" APPROVED FOR RELEASE: 09/17/2001

USSR

name in the

NOZDRINA, G.

"How to Reequip a Lead Container"

Moscow, Voyennyye Znaniya, No 5, May 72, signed to press 12 Apr 72, p 22

Translation: The radioactive contamination of food, water and fodder is controlled both under field conditions and in special radiometric laboratories where samples of products are received for analysis. In order to determine their suitability for further use, it is necessary to measure the specific contamination of the samples and to determine the age of nuclear explosion

The difficulty in determining contamination is due to the fact that nuclear explosion products represent a complex mixture of radioactive isotopes whose composition depends on the type of nuclear ammunition and also on the time that elapses from the moment of explosion. Therefore, the methods of determining the specific activity and age of nuclear explosion products

The specific activity of the samples can be determined by two methods, should be sufficiently improved and accurate, i.e., relative and absolute. At the same time, thin-layer or thick-layer

The method of relative measurements used in the RLU-1 radiometric preparations are used.

laboratory equipped with the STS-6 counter has a number of shortcomings which 1/4

CIA-RDP86-00513R002202230005-5" **APPROVED FOR RELEASE: 09/17/2001**

USSR

NOZDRINA, G., Voyennyye Znaniya, No 5, May 72, signed to press 12 Apr 72, p 22

make it impossible to give an objective evaluation of the suitability of food, water, and fodder for use. This method does not take into account the fact that the degree of a sample's contamination depends on the amount of radioactive substances, as well as on the age of nuclear explosion products, which is determined by the beta-ray spectrum. The spectrum changes continuously. However, samples with a standard strontium-yttrium preparation, whose betaray spectrum does not change in the course of time, are compared. Such a violation of the basic principle of relative measurements leads to intolerably great uncontrollable errors. The absolute method of determining the specific activity of thick-layer preparations is much more accurate.

The preparation for investigation should have a thickness whose further increase will not lead to a rise in the yield of beta-particles from its surface. The methods of preparing the preparations and the formulas for calculating their specific activity are known to specialists are not examined here. This article reports on how to reequip the DS-25 lead housing, which is part of the RLU-1 outfit, in order to use an improved, 1.0., the absolute method with the use of a thick-layer preparation.

The lead housing is changed from a horizontal to a vertical position (fig. 1). The STS-6 counter is replaced with the MST-17 counter and is secured inside the housing by means of clamping plates on a plexiglas stand

NOZDRINA, G., Voyennyye Znaniya, No 5, May 72, signed to press 12 Apr 72, p 22 designed for an end-window counter. The stand is 80 mm long, 56 mm wide, and 42 mm high. The stand has two slots, an upper and lower. The lower is for the holder of a bath with a sample, and the upper, for the holder of an aluminum filter. The aluminum filter can also be installed in the slot

Some soldering is required in order to supply high voltage to the without the holder if the dimensions permit. NST-17 counter within the DS-25 lead housing (fig. 2). To solder the positive lead, four screws are loosened and the cover for the contacts of the BGS connection is removed. The positive lead is disconnected from the pintype contact (1 in fig. 3) and soldered onto the female contact (2 in Fig. 4). the side door of the lead house is opened (fig. 2). The

18-cm long positive wire with a cap is soldered onto the lug (2 in fig. 2). Screw (3) is loosened, the 20-cm long negative wire (4) is connected to the

After the BGS is connected to the lead house and the MST-17 counter cap, and the screw is tightened again. is connected to the conductors (1 and 4 in fig. 2), the installation's operation is checked. For this purpose, a control strontium-90 preparation is placed under the counter and the plateau slope of its counting response is determined (the counter is considered good if the plateau width is no less than 100 v and the slope does not exceed several percent 100 v). 3/4

rethe entire thinkly in hele some interviewers

- 91 -

USSR

NOZDRINA, G., Voyennyye Znaniya, No 5, May 72, signed to press 12 Apr 72, p 22

The general view of the reequipped lead housing with a stand for the placement of the MST-17 end-windown counter, the preparation, and the filter

The equipment and devices which are part of the RLU-1 outfit can be is shown in fig. 1. used for taking samples and for their preliminary preparation. In order to grind food products (sugar, peas, and groats) more efficiently, a coffee nill is used, each time being decontaminated inside.

A special press is used for the preparation of 12-mm high baths with a diameter of 40 mm from 0.1 mm-thick aluminum. Baths produced by

When the activity of a sample is determined, aluminum filters of a industry can be used. varying thickness, i.e., from 30 to 100 mg/cm2 are needed. To determine the age of nuclear explosion products, it is necessary to have a 260 mg/cm² (1 mm)

The recommendations on reequipping a lead housing presented make it thick aluminum filter. possible to determine the specific activity of food and water samples by an improved and more sensitive method of absolute measurements which, moreover, greatly shortens the time of measuring samples.

4/4

PROCESSING DATE--160CT70CT TITLE--CHARACTER OF CHEMICAL BUNDS IN A VANADYL COMPLEX FOR SUME OXIDE UNCLASSIFIED -GLASSES STUDIED FROM PARAMAGNET IC RESONANCE AND ELECTRON ASSORPTION AUTHOR-(05)-BOGOMOLOVA, L.D., DOLGOLENKO, T.F., LAZUKIN, V.N., NOZORINA, YE.N. PETROVYKH, N.V. COUNTRY OF INFO--USSR SOURCE--DOKL. AKAD. NAUK SSSR 1970, 191(1), 54-7 DATE PUBLISHED ----- 70 SUBJECT AREAS -- MATERIALS, CHEMISTRY TOPIC TAGS-VANADIUM COMPLEX, OXIDE GLASS, EPR SPECTRUM, MOLECULAR ORBITAL, GLASS COMPOSITION, CHEMICAL BONDING CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0020/70/191/001/0054/0057 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1993/0505 CIRC ACCESSION NO--ATO113396 UNCLASSIF IED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

PROCESSING DATE--160CT70 UNCLASSIFIED THE ELECTRON ABSORPTION AND PMR CIRC ACCESSION NO--ATO113396 SPECTRA OF VO PRIMEZPOSITIVE IN B SUB2 O SUB3NEGATIVE BAO MINUS V SUB2 O ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. SUBS. SID SUB2 MINUS BAD MINUS V SUB2 O SUB5, AND P SUB2 O SUB5 MINUS BAO MINUS V SUB2 0 SUB5 GLASSES (CONTG. 1-5PERCENT V SUB2 0 SUB5) WERE MEASURED AT LIQ. - N TEMPS. AS A FUNCTION OF THE GLASS COMPN. THE NEW EXPTL. DATA AND THE EARLIER PUBLISHED DATA ON THE EPR SPECTRA OF V GLASSES (B., ET AL. 1967) WERE INTERPRETED WITHIN THE MO THEORY. RESULTS SUGGESTS THAT IN THE GLASSES STUDIED, VANADYL FORMS C SUB4V TYPE SYMMETRY COMPLEXES AND THE UNPAIRED ELECTRON IS LOCALIZED UN THE B SUB2G TYPE ORBITAL, CONSTRUCTED FROM 3D SUBXY ORBITAL OF V PRIME4POSITIVE AND 2RHO ORBITALS OF O LIGANDS. THE COEFFS. BETA SUB1 AND BETA SUB1 PRIME AT THE ED SUBXYNEGATIVE AND ZRHO ORBITALS, RESP., ARE DETO. BY THE DEGREE OF LOCALIZATION OF THE UNPAIRED ELECTRON ON THE RESP. ORBITALS AND, THEREFORE, CHARACTERIZE THE PI BONDING IN THE EQUATORIAL PLANE OF ANALOGOUS, B SUBIEPSILON DRBITAL OF THE COMPLEX IS CONSTRUCTED FROM 3D SUBX PRIMEZ MINUS SUBY PRIMEZ CRBITALS OF V PRIME 4 POSITIVE AND RHO ORBITALS OF THE VANADYL O AND THE CURRESPONDING COEFFS. (SLPHA AND GAMMA) AT THE D FUNCTIONS CHARACTERIZE THE SIGMA BONDING IN THE EQUATORIAL PLANE AND THE PI BONDING OF V WITH THE VANADYL EVALUATION OF THE PARAMETERS OF CHEM. BONDS BY THE MO I CAO METHOD CONFIRMED THAT THE COVALENCY OF PI AND SIGMA BONDS IN THE V COMPLEX INCREASES WITH THE ANT. OF THE GLASS FORMING AGENT IN THE ORDER P SUB2 O SUB5 YIELDS SID SUB2 YIELDS B SUB2 O SUB3. UNIV. IM. LOMONOSOVA, MOSCOW, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

USSR

VDC 66.063.5

Mederingen betreviour en de som en som de som dit de la ministra de la ministra de la corrette de la mante de la corrette de la ministra de la corrette del la corrette de la corrette del corrette del la c

KOSTIKOV, V. I., MAURAKH, M. A., and NOZHKINA, A. V. Moscow Institute of Steel and Alloys

"Wetting of Diamonds and Graphite by Liquid Alloys of Iron With Titanium"

Kiev, Poroshkovaya Metallurgiya, No 1 (97), Jan 71, pp 79-82

Abstract: A study was made of the wetting of single diamond crystals and plates cut from them along the (100) facet and pyrolytic graphite. The test procedures are described and the results of the experiments are presented. The tendency of liquid iron and its alloys with titanium toward wetting the tendency of liquid iron and its alloys with titanium toward wetting diamonds is higher for the (100) facet and lower for the (111) natural facet. Pyrographite occupies an intermediate position. Introduction of more than 30% titanium into the iron improves wettability of diamonds and graphite by it. The magnitude of the contact angle of pure iron in pyrographite is 50°, and that of iron alloy with 3.9% C is about 110°. The energy of adhesion of iron to diamonds along the (100) facet is 3,160 ergs/cm², and on the (111) facet, 2,590 ergs/cm². The energy of adhesion to pyrographite is 2,960 ergs/cm². It was found that titanium increases the energy of adhesion of iron to graphite and diamonds.

USSR

KOSTIKOV, V. I., et al, Poroshkovaya Metallurgiya, No 1 (97), Jan 71, pp 79-82

Graphs are presented showing the wetting contact angle of diamonds and graphite by FeTi alloys as a function of titanium content, the variation of the wetting contact angle of diamonds and pyrographite by iron as a function of contact time for both the (100) and (111) facets, and the spreading of Fe-Ti alloys over diamonds and pyrographite as a function of Ti content.

2/2

- 10 -

Acc. AT0047480

Abstracting Service GEOPHYSICAL ABST

5/70 Ref. Code: UR 0020

91871k New facts on the oxidation and selfignition of alkaneair mixtures. Lisichkin, A. M., Northkina, L.A.; Shtern, V. Ya. (Inst. Neftekhim, Sin. im. Topchieva, Moscow, USSR). Dokl. Akad. Nauk SSSR 1970, 190(2), 380-2 [Phys Chem] (Russ). Oxidn, and autoignition of n-alkaneair mixts was studied at static conditions at 250-650°/0.1-15 atm. abs. In the center of a stainless steel reaction vessel, was arranged a turbulator with 112 1-1.2-nim diam, holes. The gas mixt was introduced into the reactor with a high velocity. The anal. of the oxidn, and spontaneous ignition processes was made based on the pressure, temp., luminosity, and compn. of the reaction products. Several series of expts. differing in the methods of introduction of the gas mixt, were made. When the time of warming of the gas mixts, to the temp, of the walls of the reaction vessel is sharply reduced, a low-temp, oxidn, process (without formation of a cold flame) and low-temp, self-ignition of the gas mixt. (similar to the one-stage hot explosion) can be achieved.

1/1

REEL/FRAME 19791036 q. 11

UDC 616.981.71-022.395.42-036.21(571.51)

USSR

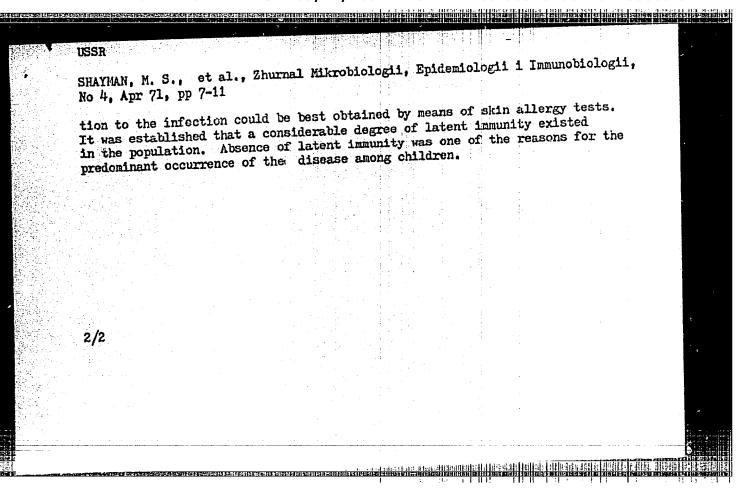
SHAYMAN, M. S., VOSHCHAKINA, N. V., NOZIK, S. I., PATS, S. I., and KRASOV-SKIY, F. V., Omsk Institute of Infections with Natural Foci and Krasnoyarsk Kray Sanitary Epidemiological Station

"Data Pertaining to the Epidemiology of North Asian Tickborne Rickettsiosis in Krasnoyarsk Kray in 1936-1967"

Moscow, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 4, Apr 71, p 7 11

Abstract: North Asian tickborne rickettsiosis which was initially identified in Krasnoyarsk Kray in 1936, still occurred there in 1967, with a distribution exceeding that in any other part of the USSR. From 1936 to 1967, 10,634 cases of this disease were recorded in Krasnoyarsk Kray. The highest incidence of the disease was in the 30 south-eastern rayons. Children younger than 16 yrs were mainly affected (6113% of cases). The principal vector of the disease was D. nuttalli. The agent (D. sibiricus rickettsiae) was isolated for the first time from I. persulcatus and H. concinna. The most effective methods of detecting D. sibiricus rickettsiaw in ticks were by immunofluorescence tests and tissue culture methods. Comparison of results obtained by various test methods showed that epidemiological data pertaining to exposure of the popula-1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"



PROCESSING DATE--18SEP70 UNCLASSIFIED TITLE--NEUTRON DIFFRACTION STUDY OF AN ALUMINUM AND LITHIUM ALLOY -U-AUTHOR-(04)-NOZIK, YU.Z., LIPIN, YU,V., MAKSIMYUK, P.A., MIKHALKO, V.D. COUNTRY OF INFO--USSR SOURCE--LATV. PSR ZINAT. AKAD. VESTIS, FIZ. ZINAT. SER. 1970, (1), 88-90 DATE PUBLISHED----70 SUBJECT AREAS -- MATERIALS TOPIC TAGS--LITHIUM ALLOY, ALUMINUM ALLOY, MODEL, CRYSTAL STRUCTURE ANALYSIS, NEUTRON DIFFRACTION CONTROL MARKING--NO RESTRICTIONS DOCUMENT CLASS--UNCLASSIFIED STEP NO--UR/03/11/70/000/001/0088/0090 PROXY REEL/FRAME--1988/0609 CIRC ACCESSION NO--APO105592 UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

PROCESSING DATE--18SEP70 UNCLASSIFIED ABSTRACT/EXTRACT-- (U) GP-0- ABSTRACT. AN AL-LI ALLOY CONTG. 4 NT. 020 PERCENT LI (AL SUBO TIMES 84 LI SUB O TIMES 16) HAS INVESTIGATED BY NEUTRON DIFFRACTION AND SHOWED, BESIDES THE BASIC LINES CORRESPONDING TO THE PURE AL STRUCTURE, 2 SUPERSTRUCTURE LINES, (100) AND (110), CORRESPONDING TO THE LI ATOMS. THE INTERPRETATION OF THE (100) AND (110) PEAKS LEADS TO 2 MODELS OF LI AT. ARRANGEMENT IN THE AL STRUCTURE: AN OCTAHEDRAL HODEL WITH 111 OVER 222 COORDIATES AND A TETRAHEDRAL MODEL WITH 111 OVER 444 COORDINATES. THE LI ATOMS OCCUPY THE OCTAHEDRAL POSITIONS IN THE FCC. LATTICE OF AL. THE INSUFFICIENT SHARPNESS OF THE (100) AND (110) PEAK INTENSITIES, DUE TO THE SMALL AMT. OF LI IN THE ALLOY, DOES NOT ALLOW THE AMT. OF LI IN THE OCTAHEDRAL POSITION TO BE CALCO., AND THUS, NO INFORMATION ON THE SUBSTITUTION OF LI ATOMS IN THE AL STRUCTURE COULD BE OBTAINED. HINCL ASSIFTED REPRESENTATION OF THE SOLVEN OF THE PROPERTY OF THE STREET OF THE STREET

"APPROVED FOR RELEASE: 09/17/2001 CIA-

CIA-RDP86-00513R002202230005-5

Acc. Nr: 0048486 Abstracting Service: CHEMICAL ABST. 5/10

Ref. Code: UBOOTO

N

sisting of cubic single crystals. Nran yan, A. A. (Inst. Fir. Issied., Erevan, USSR). Kristallografya 1970, 15(1), 86-90 (Russ). Math. considerations are presented tending to establish 3rd order elastic consts. for polycrystals (e.g. for NaCl, KBr, and KF). According to the Reuss method, cakens, were initially made of the 3rd order elasticity modulus of the polycrystal, and then of 3rd order elasticity modulus of the polycrystal, and then of 3rd order elastic consts. The mean value of tensor invariants of elastic moduli of single- and polycrystals was calcd. Anal. of the results obtained, and of known literature data, showed the effectiveness of establishing const. elastic polycrystals as arithmetic mean values computed by the R. 188 and Voigt methods.

REEL/FRAME 19800194 18nt

Yı

USSR

UDC 619.941:582.28

NTUKSHA, Yu. P., (Reviewer), State Public Library imeni M. Ye. Saltykov-Schedrin Povrezhdeniye promyshlennykh materialov i izdeliy pod vosdeystviyem mikroorganizmov. Spravochnik (Damage Done to Commercial Materials and Products by Microorganisms. A Handbook), compiled by T. S. Bobkova, I. V. Zlochevskaya, A. K. Rudakova, and L. N. Chekunova, Moscow University Publishing House, 1971, 148 pp

Leningrad, Mikologiya i Fitopatologiya, No 6, 1971, pp 536-537

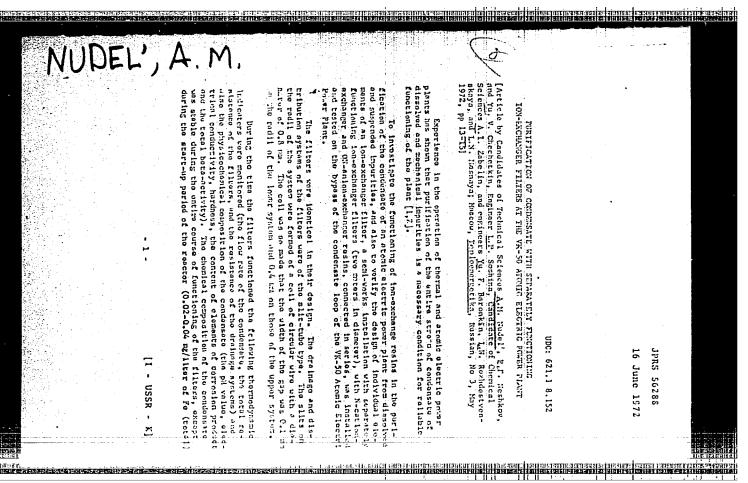
Abstract: This handbook summarizes information drawn from 125 Soviet and 186 foreign sources on microbial damage, means of protection, and methods of testing the resistance of a wide range of materials: metals, paints, fuel, rubber, plastics, hides, textiles, paper, books, building materials, optical instruments, etc. Concise data synthesize everything known about each material under both temperate zone and tropical conditions. This is done for both the final and intermediate products. The chemical and in some cases manufacturer's names of the compounds recommended for protective purposes facilitate the use of the book. All those concerned with microbial degradation of materials or interested in the microorganisms responsible will find the handbook an important and useful aid.

1/1

- 57 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

T. 1976). March 1776 February Followski, and the control of the co



USSR

UDC: 517.9

KREYN, M. G., NUDEL'MAN, P. Ya., Odessa Engineering Construction Institute, Odessa Electrical Engineering Institute of Communications

"Concerning Certain New Problems for Functions of the Hardy Class, and Also Continual Families of Functions With Double Orthogonality"

Moscow, Doklady Akademii Nauk SSSR, Vol 209, No 3, 21 Mar 73, pp 537-540

Abstract: Let $\hat{L}_2(a,b)$, $-\infty \le a < b \le \infty$, denote the real Hilbert space consisting of all real functions of the complex space $L_2(a,b)$. Let \mathcal{F} denote the non-normed Fourier-Plancherel operator in $L_2(-\infty,\infty)$, more exactly for $f \in L_1(-\infty,\infty)$,

$$(\mathcal{F}f)(u) = \int_{-\infty}^{\infty} e^{-i\omega t} f(t) dt \left(= 1, i, m \int_{N', N' \to \infty}^{N} e^{-i\omega t} f(t) dt \right).$$

Any $L_2(a,b)$ (when at least one of the numbers a, b is finite) is treated as a subspace in $L_2(-\infty,\infty)$ made up of appropriately truncated functions. The notation H (H) denotes a subspace in $L_2(-\infty,\infty)$ onto which operator $\mathcal F$ maps $L_2(0,\infty)$ ($L_2(0,\infty)$). Thus $F(\in H)$ is a member of H only when F is Hermitian: i. e., $F(-\omega) = \overline{F(\omega)}$ almost everywhere on the axis.

1/2

USSR

KREYN, M. G., NUDEL'MAN, P. Ya., Doklady Akademii Nauk SSSR, Vol 209, No 3, 21 Mar 73, pp 537-540

The authors consider the following problem: Some Hermitian function $F \in L_1(-1,1)$ is given together with the number ε $(0 < \varepsilon \le \|F\|/2\pi)$. It is required to find $g \in L_1(0,\infty)$ having the least norm $\|g\|$ under the condition that

$$\frac{1}{2\pi} \sum_{i=1}^{n} |F(\omega) - G(\omega)|^2 d\omega \leqslant t^2, \quad G = \mathcal{F}(y).$$

The problem has a unique solution determined from the integral equation

$$\mu g(t) + \int_0^\infty \frac{\sin(t-s)}{\pi(t-s)} g(s) ds = f(t), \quad 0 \le t < \infty,$$

where $f = \mathcal{F}^{-1}(F)$, and $\mu = \mu(\epsilon)$ is some positive function of the argument ϵ . This function approaches zero monotonically when $\epsilon \downarrow 0$ and, moreover, $\mu = -\frac{12\pi \epsilon}{\|F\|} + O(\epsilon^2)$.

The derivations in the paper lean heavily on the results of Koppelman and Pincus (Math. Zs., 71, H. 4, 399, 1959).

- 11 -

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

MOTO SE REGERALISEE ES SULLEMENTA MANTENEN DE LA MENTA MANTEN DE MANTEN DE LA MENTAL DE LA MENTAL DE LA MENTAL L'ALL'ANTICHE CONTRETA DE LA MENTAL DE LA MENTAL DE L'ANTICHE DE L'ANTICHE DE L'ANTICHE DE L'ANTICHE DE L'ANTIC

entrole situation characteristic and a second control of the contr UNCLASSIFIED PROCESSING DATE--13NOV70 1/2 029 TITLE--INCREASING THE WEAR RESISTANCE OF VULCANIZED RUBBER -U-

AUTHOR-(04)-NOVIKOV, A.S., NUDELMAN, Z.N., SHALYGIN, G.F., PROKUDIN, I.P.

COUNTRY OF INFO--USSR

SOURCE--GER. 1,694,680

DATE PUBLISHED -- 21MAY 70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--WEAR RESISTANCE, CHLOROPRENE, ACRYLONITRILE, BUTADIENE, COPOLYMER, SYNTHETIC RUBBER, ANTIMONY FLUORIDE, FLUORINATION, CHEMICAL PATENT

CONTROL MARKING--NO RESTRICTIONS

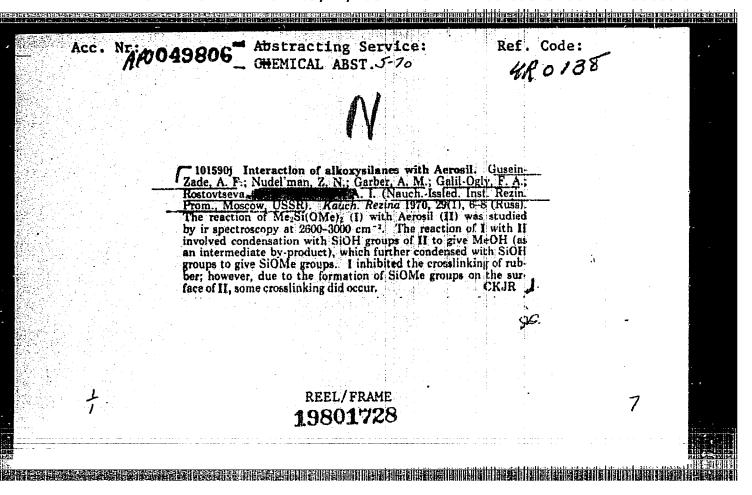
DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3002/1541

STEP NO--GY/0000/70/000/000/0000/0000

CIRC ACCESSION NO--AA0128936

- UNCLASSIFIED

	UNCLASSIFIED	PROCESSING DATE13NOV7	0
CIRC ACCESSION NOAA0128936	12 AD	DESISTANCE HE VULCANIZED	
SEASON ACT INVIOLET TO ACT TO (11) 12PTUT	ABSTRACT. THE MEAN	ENE IS IMPROVED BY	
ACRYLONITRILE, BUTADIENE CO	REACE WITH ME SUB2 CO	COUNTY BEISBE SUBS UNDER	K
FLUORINATING THE KUBBER SC	EDR 5-20 NIN.	FACILITY: SCIENTIFIC	,
PRESSURE AT 50-1000EGREES RESEARCH INSTITUTE OF THE	RUBBER INDUSTRY.		
H KESCARUM INSTITUTE			
			•
			•
			**
		- 真の特殊は、「数」。 こうしょうかい - 真にはなっても	
Andrea in the contract of the	NCLASSIFIED		
#	ZHARRING SANT DE GRANT DE LES CELLES DE LE COMPTE DE LE C		



1/2 023		CESSING DATE300CT70
CITLE-PREPARATION OF PATIEN EXTRACTION, PECULIARITIES	TS WITH DIABETES MELLITUS OF PRE OPERATIVE TREATMENT	FOR CATARACT AND INSULIN THERAPY
AUTHUR-NUDGA. L.I.		

COUNTRY OF INFO-USSR

SCURCE-VESTNIK UFTAL MULOGII, 1970, NR 3, PP 77-79

DATE PUBLISHED ---- 70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS-DIABETES MELLITUS, CATARACT, INSULIN, SURGERY, BLOOD VESSEL

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/0110

STEP NO--UR/0357/70/000/003/0077/0079

CIRC ACCESSION NO--AP0129366

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

UNCLASSIFIED PROCESSING DATE--300CT70 CIRC ACCESSION NO--AP0129366 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. PATHOLOGICALLY CHANGED VASCULAR WALLS AND FRESHLY FORMED VESSELS, ALONG WITH THE DEVELOPMENT OF HYPOGLYCEMIC STATE IN THE POSTOPERATIVE PERIOD SHOULD BE CONSIDERED AS BASIC CAUSATIVE FACTORS RESPONSIBLE FOR FREQUENT VASCULAR COMPLICATIONS ARISING AFTER CATARACT EXTRACTION IN DIABETIC PATIENTS. SPECIAL MEDICAMENTOUS PRE TREATMENT PRIOR TO SURGERY AND MODIFIED PROCEFURES OF INSULIN THERAPY IN THE POST OPERATIVE PERIOD ARE REQUIRED TO PREVENT VASCULAR COMPLICATIONS. THE AUTHOR OFFER 228 CASE REPORTS OF PATIENTS IN 60 OF WHEM THE PRECENTAGE OF VASCULAR COMPLICATIONS WAS BROUGHT FROM 60.7 DOWN TO 28.3 THANKS TO SPECIAL PRE TREATHENT FOR SURGERY AND HEASURES PREVENTING DEVELOPMENT OF HYPOGLYCEMIA IN THE POST OPERATIVE PERIOD. FACILITY: KAFEDRA OFTAL MOLOGII TSENTRAL NOGO INSTITUTA USOVERSHENSTVOVANIYA VRACHEY, HOSKVA.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"

USSR

WDC 612.833.81+612.66

NUDMAN, S. I., Institute of Physiology imeni I. P. Pavlov, USSR Academy of Sciences, Leningrad

"Changes in Higher Nervous Functions in Rats Under the Influence of Acceleration in Ontogenesis"

Moscow, Zhurnal Vysshey Nervnoy Deyatel nostinimeni I. P. Pavlov, Vol 21, No 2, 1971, pp 502-508

Abstract: Rats aged 25 days and 1.5. 2. 6-12, and 18 months were used in experiments with programmed control to determine the effect of 0.0 g and 10 g accelerations on the course of the development of a motor-defense conditioned reflex. The rats were conditioned by an electric bell sounding at one-minute intervals. The unconditioned stimulus was a 20-volt electric current applied every sixth second during the conditioning process. The reflex was in the form of an escape reaction to either side of a T-shaped labyrinth from the labyrinth center to which the electric current was applied. Reaction to acceleration at 0.6 g and 10 g was determined by rotating the rats on a specially prepared platform at 65 rpm and 210 rpm respectively for a period of 12 minutes. Indexes sought were the number of erroneous reactions, the latent period of

1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"



USSR

NUDMAN, S. I., Zhurnal Vysshey Nervnoy Deyatel nostinimeni I. P. Pavlov, Vol 21, No 2, 1971, pp 502-508

response reactions, and motor reaction time in the different age groups. The experiments established that all age groups responded in the same manner to centripetal acceleration at 0.6 g: motor reaction time increased, the period of latent response reaction decreased, while the number of erroneous reactions remained unchanged. Considerable changes were noted, however, in reactions to centripetal acceleration at 10 g: erroneous reactions and latent periods of response reactions increased in the 25-day old rats; motor reaction time markedly increased in the 1.5, 12, and 18-month old rats; the 24-month old rats exhibited greatest tolerance to practically all parameters of the conditioned reflex development.

The article is accompanied by five illustrations and 43 reference entries.

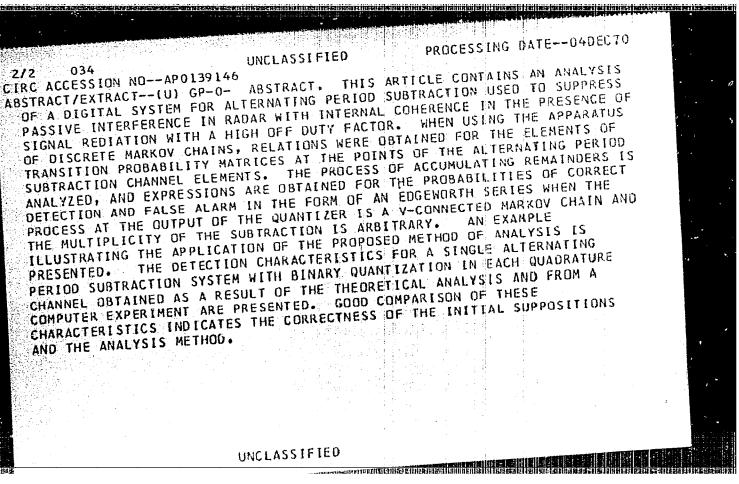
2/2

- 69 -

CIA-RDP86-00513R002202230005-5" APPROVED FOR RELEASE: 09/17/2001

UNCLASSIFIED PROCESSING DATE--04DEC70 TITLE--ANALYSIS OF A DIGITAL SYSTEM FOR HOVING TARGET SELECTION -U-AUTHOR-(02)-NUFONMOV, YU.A., LUKHAREV, V.A. COUNTRY OF INFO--USSR SOURCE-MOSCOW, RADIOTEKHNIKA I ELEKTRONIKA, VOL XV. NO 7, 1970, PP 1411-1418 DATE PUBLISHED-----70 SUBJECT AREAS-NAVIGATION TOPIC TAGS-DIGITAL SYSTEM, RADAR INTERFERENCE, MARKOV PROCESS, MATRIX FUNCTION. RADAR DETECTION CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0109/70/015/007/1411/1418 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3009/0342 CIRC ACCESSION NO--APO139146 UNCLASSIFIED

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"



USSR

N

unc 621.396.963.4

NUFONMOV, Yu.A., LUKHAREV, V.A.

"Analysis of a Digital System for Moving Target Selection"

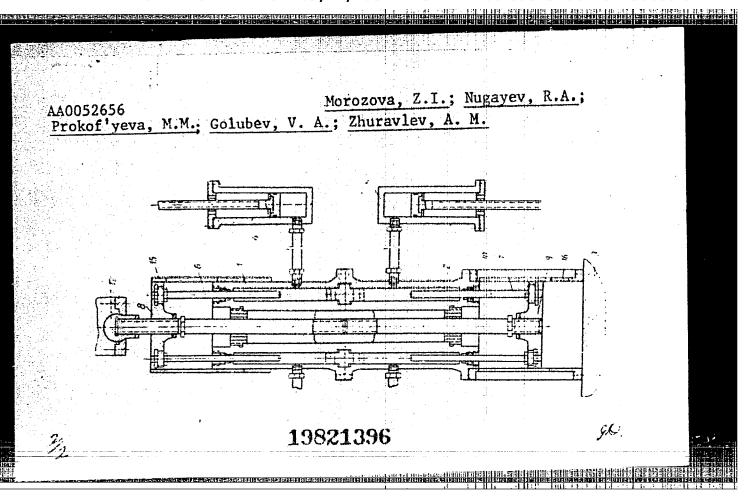
Moscow, Radiotekhnika i Elektronika, Vol XV, No 7, 1970, pp 1411-1418

Abstract: This article contains an analysis of a digital system for alternating period subtraction used to suppress passive interference in radar with internal coherence in the presence of signal rediation with a high off-duty factor. When using the apparatus of discrete Markov chains, relations were obtained for the elements of transition probability matrices at the points of the alternating period subtraction channel elements. The process of accumulating remainders is analyzed, and expressions are obtained for the probabilities of correct detection and false alarm in the form of an Edgeworth series when the process at the output of the quantizer is a V-connected Markov chain and the multiplicity of the subtraction is arbitrary. An example illustrating the application of the proposed method of analysis is presented.

The detection characteristics for a single alternating period subtraction sys-

1/2					20	
수 있는 것이 되었다. 15 - 10 1일				÷		
USSR NUFONMOV, Yu.A., Radiotekhn		a Vol XV.	No 7, 19	70, pp 14	11-1418	
NUFONMOV, Yu.A., Radiotekhn of the theoretical analysis	ika i Elektronik	a, ver	-iment are	present	ed. Good	
of the theoretical analysis comparison of these charact	and from a comp	es the co	rectness	of the i	nitial	
comparison of these charact	eristics indicate					
comparison of these characters suppositions and the analys	15 Merica.					
일과 : [11] - [4] - [4] - [4] - [4] - [4] - [4] - [4] - [4] - [4] - [4] - [4] - [4] - [4] - [4] - [4] - [4] - [4]						
		1.1.				-
				· ·	•	
				: :		3
				# # #		3
				* .		3
						3

NUGAYEV AA0052656 Soviet Inventions Illustrated, Section III Mechanical and General, Derwent, TWO-SIDED HYDRAULIC DAMPER consists of 244817 two parts; 1 and 2 bolted together and mounted on base 3. It is filled with working medium under atmospheric pressure and connected by pipelines with additional chambers 4 and 5. The body contains a number of chambers with pistons 6 and 7 connected between themselves by crosspieces 8 and 9 which in turn are rigidly connected to rod 10. All the chambers are interconnected and each contains free piston which divides two media (air and fluid). The air medium communicates with the atmosphere through the non-return valve. Crosspieces 8 and 9 are connected to suitable guides I5 and 16. The pressure is transmitted to pistons 6 and 7 through the flange, thrust ball 17, rod 10 and crosspieces 8 and 9. 1.2.68. as 1214193/25-28. V.A.GOLUBEV et al. (9.10 69.) Bul.18/28.5.69. Class 47a. Int.Cl. F16f. 19821395



USSR

UDO 621.396.4:621.396.669.8

ROMANOV, I.M., NEZHMETDINOV, T.K., KOBCHIKOV, A.V., NIGMANOV, I.S.

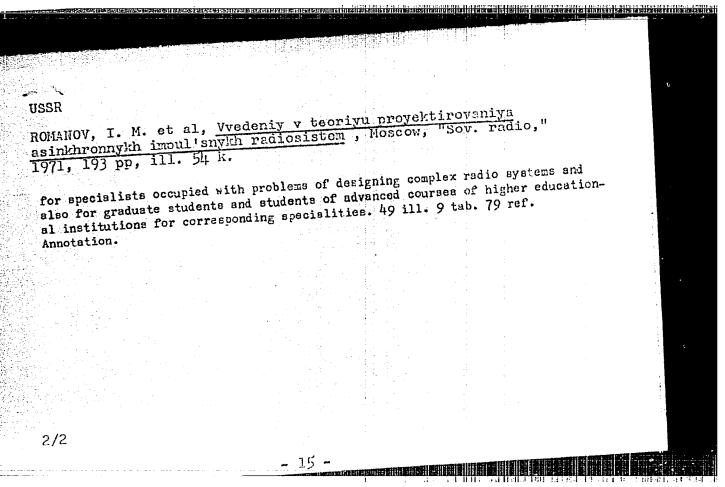
"Introduction To The Theory Of Designing Asynchronous Pulse Radio Systems"

Vvedeniy v teoriyu proyektirovaniya asinkhronnykh impul'snykh radiosistem (cf. English above), Moscow, "Sov.radio," 1971. 199 pp. ill. 54 k. (from RZh: Radiotekhnika, No 2, Feb 1972, Abstract 2A2O5K)

Translation: From the position of system engineering the book considers a number of basic problems of the initial designing of asynchronous pulse radio systems (APRS) in which several nonsynchronized transmitters transmit information to a common receiving center. In the process, problems are considered connected with a specific efficiency of the APRS, and some interrelations of the probability characteristics of the system. Considerable attention in given to problems of the use of methods of the theory of mass maintenance and to evaluations of the noise immunity and the traffic capacity of the APRS on exposure to noise which imitates the applicable complex signals. Some methods are considered of increasing the efficiency and noise immunity of the APRS by additional processing of information by special logical devices and use of information and structural adaptations in these systems. The books is intended

1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R002202230005-5"



UDC 616.12-007-053.1-089.5-06

SERGIYEVSKIY, V. S., TASHPULATOV, A. T., CHERNOV, V. K., NUGHANOV, YE.K., YAVORSKAYA, G. V., ERENBURG, T. A., LIZUNKOVA, L. P., and TSYBANEVA, N. G., Department of Cardiovascular Surgery, Kazakh Institute of Clinical and Exeperimental Surgery, Ministry of Public Health, Kazakh SSR, Alma-Ata

表现的思想的思想。

"Operative Complications During Correction of Congenital Heart Defects Under Conditions of Moderate Hypothermia"

Moscow, Grudnaya Khirurgiya, No 2, 1970, pp 57-62

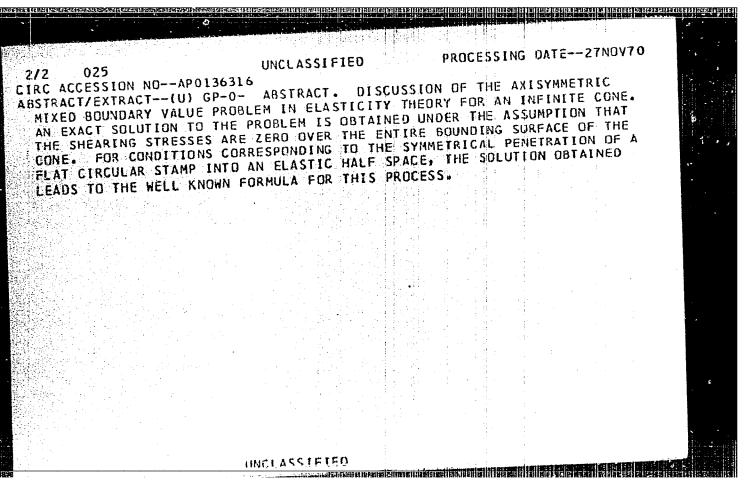
Abstract: A total of 230 operations were performed using hypothermia at the institute from 1965 to 1969, operations were conducted to correct septal defects, pulmonary and aortic stenosis, tetralogy of Fallot, combined and rare defects. Among the life-threatening complications encountered in the operations were asystole, ventricular fibrillation, aeroembolism of the coronary vessels, loss of blood, atrioventricular and bundle-branch heart block. The causes of the complications are analyzed and suggestions made to prevent them and to control those that occur. With the present level of knowledge, mortality during operations performed under moderate hypothermis should not exceed 1. 1/1

7676 1840 (92 pages) ---92

/	01/1 / 1001	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
UNCLAS	PROCESSING DATE-300C170	500 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1/2 UUB DE SCHIFF BASES WIT		
TITLE-REALITION OF SOLUTION AUTHOR-(03)-KOZLOV, N.S., PAK, V.D.		
COUNTRY OF INFOUSSR	1970. (2), 194-6	
SOURCE-KHIM. GETEROTSIKL. SOEDIN.		
DATE PUBLISHED70		
SUBJECT AREAS—CHEMISTRY	AND UNDERGEARBON, AROMATIC KETONE,	
SUBJECT AREAS—CHEMISTRY TOPIC TAGS—SCHIFF BASE, POLYNUCLE HETEROCYCLIC NITROGEN COMPOUND,	AMINE	
		- Y:
CENTROL MARKING-NO RESTRICTIONS		
DECUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—2000/0841	STEP NOUR/0409/70/000/002/0194/0196	
CIRC ACCESSIEN NOAPO124507 UNCLASS	SILIED	

istoring der seinen i server seinen er seut konden int der seut bei met treis er sein i server seut seut seut s Ber seiner seuten et servert seit seiner bestellt int inter seut seiner server seinen ist ist seut seut seut s UNCLASSIFIED PROCESSING DATE-300CT70 2/2 008 ABSTRACT/EXTRACT-(U) GP-0- ABSTRACT. FROM 1,3 INDANDIONE (I) AND (M OR CIRC ACCESSION NO--APO124507 P SUBSTITUTED BENZALIANILINE OR (M OR P SUBSTITUTED BENZAL) BETA NAPHTHYLAMINES THE FOLLOWING 2 SUBSTITUTED 1.3 INDANDIDNES WERE PREPD. IN ALC. OR BENZENE UNDER ELIMINATION OF ANILINE: BENZYLIDENE, M. 152-3DEGREES (YIELD TOPERCENT) FROM ANILINE DERIVA; P METHOXYBENZYLIDENE, M. 155-6DEGREES (YIELD BOPERCENT); P BROMOBENZYLIDENE, M. 169-70DEGREES (YIELD 85PERCENT); M NITROBENZYLIDENE. M. 246-8DEGREES: AND P NITROBENZYLIDENE, M. 228-30DEGREES (85PERCENT). USING BENZYLIDENE BETA NAPHTHYLAMINES SCHIFF BASES IN ETHANOL ON A WATER BATH THE PRODUCT OF THE REACTION WITH FACILITY: PERM. SEL SKOKHOZ. INST. IM. I WAS II. PRYANISHNIKOVA, PERM, USSR. UNCLASSIFIED

PROCESSING DATE--27NOV70 UNCLASSIFIED TITLE--CONTACT PROBLEM FOR AN ELASTIC INFINITE CONE -U-AUTHOR--NULLER, B.M. COUNTRY OF INFO--USSR SCURCE-PRIKLADNAIA MATEMATIKA I MEKHANIKA, VOL. 34, MAR.-APR. 1970, P. 339-348 DATE PUBLISHED----70 SUBJECT AREAS--PHYSICS, MECH., IND., CIVIL AND MARINE ENGR TOPIC TAGS--ELASTICITY, SHEAR STRESS, CONE SHELL, BOUNDARY VALUE PROBLEM CONTROL MARKING--NO RESTRICTIONS STEP NO--UR/0040/70/034/000/0339/0348 DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3007/0882 CIRC ACCESSION NO--AP0136316 UNCLASSIFIED



UNCLASSIFIED PROCESSING DATE-300CT70

TITLE-SULAR CELLS BASED ON EPITAXIAL GAAS FILMS -U-

AUTHOR-(03)-KAGAN, M.B., KOROLEVA, N.S., NULLER, T.A.

CCUNTRY OF INFO-USSR

SOURCE-GELIOTEKHNIKA, NO. 2, 1970, P. 28-31. 13 REFS.

DATE PUBLISHED----70

SUBJECT AREAS—ELECTRONICS AND ELECTRICAL ENGR., PHYSICS, ENERGY CONVERSION INCH-PROPULSIVE)
TOPIC TAGS—SOLAR CELL, EPITAXIAL PN JUNCTION, GALLIUM ARSENIDE PN JUNCTION, THIN FILM CIRCUIT, CRYSTAL DEFECT

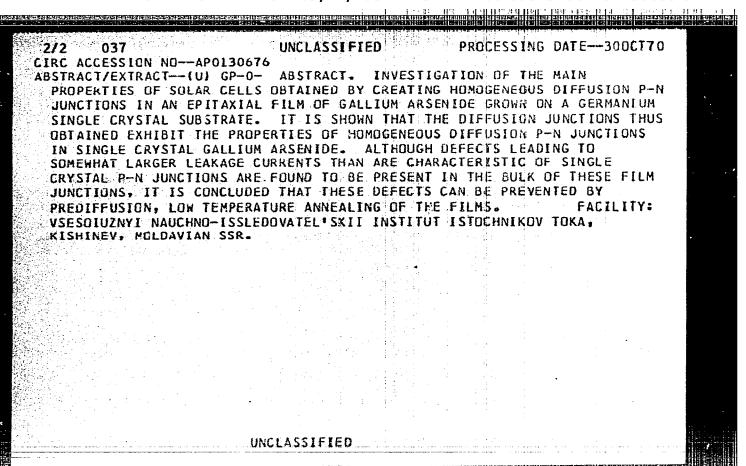
CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—3003/1846

STEP NO-UR/0377/70/000/002/0028/0031

CIRC ACCESSION NO--APO130676

UNCLASSIFIED



USSR

WC 616.895.5-085

NULLER, YU. L., and RABINOVICH, H. M., Leningrad Scientific Research Institute imeni V. M. Bekhterev and Sixth Psychiatric Hospital, Leningrad

"Comparison of Lithium Carbonate, Haloperidol, and Preparation IB-503 in the Treatment of Manic States"

Moscow, Zhurnal Nevropatologii i Psikhiatrii, No 2, 1971, pp 277-283

Abstract: Twenty-three of 50 patients with manic-depressive psychosis in the manic phase were treated with lithium carbonate (1,200 to 2,100 ng daily), 17 with haloperidol (11 to 35 mg daily) or haloperidol combined with lithium carbonate, and 10 with preparation IB-503 (200 to 450 mg daily). The condition of the patients before, during, and after therapy was judged from a rating scale assigning points to various clinical manifestations of the psychosis. Haloperidol proved to be effective in all 17 patients regardless of the severity of the manic symptoms, while lithium was effective in only those with mild or moderately severe symptoms. However, lithium was more specific with respect to regression of the manic symptoms. IB-503 was the least effective, although it was a more potent somnifacient than the other two drugs. Lithium produced only minor side effects (mild intestinal disorders), whereas haloperidol gave rise to mood swings, pronounced depression, and other disturbances.

- 93 -

li Piccesso (personales con considerativa se con secución de establica de la compania de la compania de la comp

PROCESSING DATE--300CT7 TITLE-THE INFLUENCE OF SOME FACTORS ON THE MOREIDITY AND COURSE OF MANIC DEPRESSIVE PSYCHOSIS. CLINICO STATISTICAL STUDY -U-AUTHOR-(02)-MIKHALENKO, I.N., NULLER, YU.L.

SOURCE-ZHURNLA NEVROPATOLOGII I PSIKHIATRII IMENI S. S. KORSAKOVA, 1970, COUNTRY OF INFO-USSR

VOL 70. NR 6, PP 907-911 DATE PUBLISHED ______70

SUBJECT AREAS-BIOLOGICAL AND MEDICAL SCIENCES, BEHAVIORAL AND SOCIAL

TOPIC TAGS--PSYCHIATRY, PSYCHOSIS, MEDICAL EXAMINATION

CENTRGL HARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--3001/1158

STEP NO--UR/0246/70/070/006/0907/0911

CIRC ACCESSION NO--APO126761 UNCLASSIFIED

